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ABSTRACT

This test item bank is intended to help instructors construct criterion-referenced tests for secondary-level courses in building trades. The bank is keyed to the Missouri Building Trades Competency Profile, which was developed by industry and education professionals in Missouri, and is designed to be used in conjunction with the Vocational Instructional Management System. Included in the bank are 525 test items on the following topics: basic skills, development of construction plans, preparation of the building site, construction and installation of forms, floor layout and framing, wall layout and framing, roof layout and framing, installation of roofing components, installation of exterior finishes, installation of interior finishes, assembly and construction of stairs, and leadership. The following information is provided for each test item: unique item number; duty area and task number (keyed to the Missouri Competency Profile); letter of the correct answer; source of the item (author and year of publication); date; learning domain being tested (cognitive, affective, psychomotor); writer(s)/reviewer(s); and accompanying artwork. Also included is a list of 18 references. (MN)

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Criterion-Referenced Test Items for BUILDING TRADES

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Criterion-Referenced Test (CRT) Items for

BUILDING TRADES

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FOREWORD

Rapid advances in technology are placing heavy demands on both teachers and students in vocational education. These Criterion-Referenced Test Items for Building Trades are designed to help meet those demands.

All test writers face one basic challenge: to produce test items that accurately measure what they are intended to measure. This challenge was kept firmly in mind by all those who participated in the development of the bank. The items in the bank are based upon competencies found on the Missouri Building Trades Competency Profile. Much care was taken to ensure that the test items will accurately measure a student's knowledge in regard to these competencies. Every effort was made to ensure the items are presented in a fair and unbiased matter.

The items in this book are designed to work with both the Vocational Instructional Management System (VIMS) and VAMS. The test item bank will allow instructors and administrators to manage testing and evaluation activities in the most efficient way possible. Instructors pulling items from this bank for individual tests should still evaluate the new test to see that one question does not give away the answer to another question. For word processing and test-item generation purposes, an ASCII disk of the item bank has been included with this printed copy.

This test bank should be viewed as a beginning. It is hoped that future revisions and additions will build the bank into an even more powerful and reliable evaluation and management tool.

Pat Muenks, supervisor
Industrial Education
Department of Elementary and Secondary Education

Charles "Chuck" Waibel, director
Industrial Education
Department of Elementary and Secondary Education

ACKNOWLEDGMENTS

These Criterion-Referenced Test (CRT) Items for Building Trades represent a continuing commitment to Missouri's Vocational Instructional Management System (VIMS). The bank is keyed to the Building Trades Competency Profile developed by industry and education professionals in the state. The cycle of curriculum development includes the following steps:

1. Development of the competency profile
2. Instructional analysis
3. Search for existing materials and/or a crosswalk of existing curriculum materials to the competency profile
4. Development of the curriculum guide
5. Field-test of the curriculum guide.
6. Development of mediated curriculum (videos)
7. Development of the test-item bank

To ensure that test items are firmly based on information available to students, development of the test-item bank is the final component in the development cycle.

These teachers contributed as writers and advisory committee members.

David Bechtold, Tri-County Technical School
John Hopkins, Lewis & Clark Technical School
Jerry Gilpatrick, North Central Area Vocational-Technical School
Wesley Pulis, Warrensburg Area Vocational-Technical School
Marshall Suddarth, Pike & Lincoln Technical Center
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Mike Tofari, West County Technical School (St. Louis)

These CRTs were technically reviewed and/or field-tested by the following educators.

Charles Oviatt, educational consultant, Vienna, Mo.
Kevin Peterman, Nevada Area Vocational-Technical School
Glen Smith, Lex La-Ray Technical Center
Bud Thompson, Cape Girardeau Area Vocational-Technical School
Myles Yates, Dallas Co. Area Vocational-Technical School

Support and contributions of IML staff members were instrumental to this project's development.

Harley Schlichting, director
Phyllis Miller and Dan Stapleton, assistant directors
Lori Holliday, word processor III
Stacey Luebbering, student assistant

REFERENCES USED FOR BUILDING TRADES CRTs

CIMC, 1973	Penner, Wayman R. Vocational Trade and Industrial Education. Stillwater, OK: Curriculum and Instructional Materials Center, State Department of Vocational & Technical Education, 1973.
AGC Commer.	Hendrix, Laborn J. "Bud". Commercial Carpentry. Washington, D.C.: Associated General Contractors of America; Stillwater, OK: Curriculum and Instructional Materials Center, 1986.
AGC Resid.	Hendrix, Laborn J. "Bud". Residential Carpentry. Washington, D.C.: Associated General Contractors of America; Stillwater, OK: Curriculum and Instructional Materials Center, 1985.
AAVIM Roof	Chadwick, Charley G. Roof Framing. Athens, GA: American Association for Vocational Instructional Materials, 1991.
Feirer/Hutchings	Feirer, John L., and Gilbert R. Hutchings. Carpentry and Building Construction. Mission Hills, CA: Bennett and McKnight/Glencoe, 1986.
Henak	Henak, Richard M. Exploring Construction. South Holland, IL: The Goodheart-Willcox Company, 1985.
Hop	Hop, Frederick Uhlen. Residential Construction and Design. Englewood Cliffs, NJ: Prentice-Hall, 1988.
Koel	Koel, Leonard. Carpentry. 2nd ed. Homewood, IL: American Technical Publishers, 1991.
Modern	Wagner, Willis H. Modern Carpentry. South Holland, IL: Goodheart-Willcox Co., 1992.
Modern, 1987	Wagner, Willis H. Modern Carpentry. South Holland, IL: Goodheart-Willcox Co., 1987.
Moore	Moore, Carl E. Concrete Form Construction. Albany, NY: Delmar, 1977.
Reed	Reed, Mortimer P. Residential Carpentry. 2nd ed. Englewood Cliffs, NJ: Prentice-Hall, 1985.
Smith/Honkala	Smith, Ronald C., and Ted L. Honkala. Principles and Practices of Light Construction. 4th ed. Englewood Cliffs, NY: Prentice-Hall, 1986.
Spence	Spence, William. General Carpentry. Englewood Cliffs, NJ: Prentice-Hall, 1983.
Van Orman	Van Orman, Halsey. Estimating for Residential Construction. Albany, NY: Delmar, 1991.

Willis — Willis, Charles D. Blueprint Reading for Commercial Construction. Albany, NY: Delmar, 1979.

X461 — House Building Basics (Publication X461). Tacoma, WA: American Plywood Association, 1976.

Y405 — Plywood Residential Construction Guide (Publication X405). Tacoma, WA: American Plywood Association, 1974.

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Field	Contents	Field	Contents
1	Unique item number	5	Date (MMYY)
2	Duty area and task number (Mo. competency profile)	6	Learning domain (Cognitive, Affective, Psychomotor)
3	Letter of correct answer	7	Writer(s)/reviewer(s)
4	Source (author, year of publication)	8	Accompanying artwork (ART)

.....
1. | A1 | a | Modern | 1292 | C | WP |

Safety is based on knowledge, skill and an attitude of care and concern.

a. True

b. False

.....
2. | A1 | a | Modern | 1292 | C | WP |

Hard hats are used to protect a worker from falling objects.

a. True

b. False

.....
3. | A1 | d | Modern | 1292 | C | WP |

Which safety equipment protects a worker from rough materials?

a. Boots

b. Hard hats

c. Safety glasses

d. Gloves

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.....
| A1 | 4-b,5-d,6-a,7-c | Modern | 1292 | C | WP |

Match the materials burned with classes of fires.

4.	Gasoline	a.	Class A
5.	Magnesium	b.	Class B
6.	Wood	c.	Class C
7.	Electrical	d.	Class D
		e.	Class E

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.....
8. | A2 | a | Modern | 1292 | C | WP |

Layout and measuring tools include the pocket tape, framing square, and carpenter's level.

a. True

b. False

.....
9. | A2 | a | Modern | 1292 | C | WP |

What is the T-bevel used to find?

a. Angles

b. Lengths

c. Widths

d. Levels

.....
10. | A2 | b | Modern | 1292 | C | WP |

The try square is also called a rafter square.

a. True

b. False

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.....

11.	A2	a	Modern	1292	C	WP

Which leveling tool is used for vertical leveling only?

a. Plumb bob

b. Carpenter's level

c. Torpedo level

d. Line level

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.....
12. | A3 | b | AGC, 1973 | 1292 | C | WP |

What is the smallest fraction of one inch on a carpenter's rule?

a. 1/32

b. 1/16

c. 1/8

d. 1/4

.....
13. | A3 | c | Modern | 1292 | C | WP |

Into how many equal parts is a standard 12 inch rule divided?

a. 6

b. 8

c. 12

d. 16

.....
14. | A3 | a | AGC, 1973 | 1292 | C | WP |

What are two or more equal parts of a whole called?

a. Fraction

b. Inch

c. Measuring

d. Foot

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.....
15. | A4 | a | Modern | 1292 | C | WP |

Each power and hand tool is designed for a specific use.

a. True

b. False

.....
16. | A4 | a | Modern | 1292 | C | WP |

Tools need to be kept sharp to make the best cut.

a. True

b. False

.....
17. | A4 | a | Modern | 1292 | C | WP |

Which blade is used to cut a board <u>WITH</u> the grain?

a. Rip

b. Crosscut

c. Carbide

d. Plywood

17

Field	Contents	Field	Contents
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.....

18. | A5 | c | Common knowledge | 1292 | C | WP |

Which nails are coated with cement?

a. #16 common

b. #16 box

c. #16 sinker

d. #16 galvanized

.....

19. | A5 | a | Modern | 1292 | C | WP |

Wood fasteners include adhesives of glue and mastic.

a. True

b. False

.....

20. | A5 | a | Modern | 1292 | C | WP |

At what distance should a nail be placed from the end of a board?

a. One-third of the nail's length

b. One-half of the nail's length

c. Same length as the nail

d. Two times the length of the nail

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.....
21. | A6 | d | Modern | 1292 | C | WP |

For an air nailer, what is the maximum air pressure?

a. 15 psi

b. 30 psi

c. 40 psi

d. 90 psi

.....
22. | A6 | a | Modern | 1292 | C | WP |

Aiming the pneumatic nailer at other workers is unsafe.

a. True

b. False

.....
23. | A6 | a | Modern | 1292 | C | WP |

To operate the pneumatic nailer in a safe manner, the nose should be held firmly against the surface being nailed.

a. True

b. False

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.....
24. | A7 | d | Modern | 1292 | C | WP |

What is the total square footage for a building 30' wide and 60' long?

a. 960

b. 1,100

c. 1,450

d. 1,800

.....
25. | A7 | c | Modern | 1292 | C | WP |

What is the formula to find square footage?

a. Thickness x width x length

b. (Thickness x width x length) ÷ 12

c. Width x length

d. (Width x length x depth) ÷ 27

.....
26. | A7 | b | Modern | 1292 | C | WP |

What is the size of a square foot?

a. 6 in. x 6 in.

b. 12 in. x 12 in.

c. 15 in. x 15 in.

d. 20 in. x 20 in.

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.....
27. | A8 | d | Modern | 1292 | C | WP |

What is the linear length of a wall 27′ long?

a. 14′

b. 16′

c. 24′

d. 27′

.....
28. | A8 | a | Modern | 1292 | C | WP |

The best way to determine the linear footage of an object is to determine its length.

a. True

b. False

.....
29. | A8 | a | Modern | 1292 | C | WP |

Linear footage is the total length of the object.

a. True

b. False

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.....
30. | A9 | c | Modern | 1292 | C | WP |

How many cubic inches are in one cubic foot?

a. 144

b. 644

c. 1,728

d. 2,000

.....
31. | A9 | b | Modern | 1292 | C | WP |

How many cubic feet make one cubic yard?

a. 17

b. 27

c. 47

d. 97

.....
32. | A9 | b | Modern | 1292 | C | WP |

What is the size of one cubic foot?

a. 6" x 6" x 6"

b. 12" x 12" x 12"

c. 20" x 20" x 20"

d. 24" x 24" x 24"

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.....
33. | A10 | a | Modern | 1292 | C | WP |

Scaffolding should be constructed with a load factor of four to one.

a. True

b. False

.....
34. | A10 | b | Modern | 1292 | C | WP |

How frequently should scaffolding be inspected?

a. Hourly

b. Daily

c. Weekly

d. When installed

.....
35. | A10 | a | Modern | 1292 | C | WP |

Scaffolding should be constructed under the direction of an experienced carpenter.

a. True

b. False

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.....
36. | A11 | a | Modern | 1292 | C | WP |

Air confined in tiny spaces inside porous materials makes an excellent insulator.

a. True

b. False

.....
37. | A11 | d | Modern | 1292 | C | WP |

What describes the transfer of heat from one molecule to another within a material?

a. Radiation

b. Convection

c. Selection

d. Conduction

.....
38. | A11 | a | Modern | 1292 | C | WP |

The R-value is a measure of the resistance a material has to stop heat transfer.

a. True

b. False

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.....
39. | A12 | a | Modern | 1292 | C | WP |

Types of exterior coatings include paint, stain, vinyl siding, and metal siding.

a. True

b. False

.....
40. | A12 | a | Modern | 1292 | C | WP |

Wood siding should be primed as soon as possible after the siding is applied to prevent decay.

a. True

b. False

.....
41. | A12 | d | Modern | 1292 | C | WP |

What is the most commonly used wood for vertical siding?

a. Mahogany

b. White pine

c. Birch

d. Douglas fir

Field	Contents	Field	Contents
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.....
42. | A13 | a | Modern | 1292 | C | WP |

The basic purpose of a building code is to provide health, safety, and general welfare to the occupants.

a. True

b. False

.....
43. | A13 | c | Modern | 1292 | C | WP |

Who makes the final inspections on a project?

a. Carpenter

b. Foreman

c. Community inspector

d. Contractor

.....
44. | A13 | a | Modern | 1292 | C | WP |

A building code covers the important areas of the building process.

a. True

b. False

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.....

1. | B1 | a | Modern | 1292 | C | MAT |

A set of house plans includes elevation drawings.

a. True

b. False

.....

2. | B1 | a | Willis | 1292 | C | MAT |

Which is the correct sequence for the drawings in a set of house plans? 1) Details, 2) Elevations, 3) Floor plan, 4) Foundation plan, 5) Plot plan

a. 5, 4, 3, 2, 1

b. 1, 2, 4, 5, 3

c. 3, 4, 2, 5, 1

d. 2, 4, 3, 5, 1

.....

3. | B1 | c | AGC, 1973 | 1292 | C | MAT |

A floor plan is drawn to scale using 1/4"=1'0". How long is a wall that is 3 1/4" long on the scale drawing?

a. 9'6"

b. 12'4"

c. 13'0"

d. 14'8"

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.....

7. | B3 | a | AGC Resid., pg. RC 23A | 1292 | C | MAT |

In residential construction, the foundation is poured before the anchor bolts are put in place.

a. True

b. False

.....

8. | B3 | d | AGC Resid., pg. RC 23A | 1292 | C | MAT |

When framing a house, what is the correct sequence of work? 1) Install girder, 2) Frame walls, 3) Install trusses, 4) Install floor joists, 5) Install mud sills, 6) Apply subfloor sheathing.

a. 1, 2, 3, 5, 6, 4

b. 5, 6, 3, 1, 4, 2

c. 4, 2, 1, 5, 3, 6

d. 1, 5, 4, 6, 2, 3

.....

9. | B3 | c | AGC Resid., RC 23A | 1292 | C | MAT |

What does interior finishing for residential construction include?

a. Framing interior walls

b. Pouring basement floor concrete

c. Installing drywall

d. Installing windows

.....
10. | B4 | b | Van Orman | 1292 | C | MAT |

Based on the labor estimate of 6 hours per 100 sq. ft. of subfloor installation, how many hours are required to complete a subfloor of 1250 sq. ft.?

a. 100 hrs.

b. 75 hrs.

c. 60 hrs.

d. 12 1/2 hrs.

.....
11. | B4 | b | Van Orman | 1292 | C | MAT |

A laborer makes $8.25 per hour. The contractor estimates it will take approximately 600 hours to complete the project. How much is the total estimate for labor?

a. $4,800

b. $4,950

c. $5,250

d. $6,000

.....
12. | B4 | c | Van Orman | 1292 | C | MAT |

The estimated time for installing a double-hung window (3'3" x 5'6") is 1/2 hour of skilled labor + 1/4 hour of unskilled labor. How much time is required to install 12 windows?

a. 7 hrs.

b. 8 hrs.

c. 9 hrs.

d. 12 hrs.

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.....
13. | B5 | d | Modern | 1292 | C | MAT |

What does the abbreviation S1S2E for lumber mean?

a. Surfaced one side

b. Surfaced one side, one edge

c. Surfaced four sides

d. Surfaced one side, two edges

.....
14. | B5 | b | Modern | 1292 | C | MAT |

The grade stamp T & G refers to trimmed and glued plywood.

a. True

b. False

.....
15. | B5 | d | Modern | 1292 | C | MAT |

What is the difference between exterior grade plywood and interior grade plywood?

a. Number of plies (3, 5, 7)

b. Size of the plywood (4' x 8')

c. Thickness of the plywood (1/2", 3/4", etc.)

d. Type of glue used

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.....
16. | B6 | b | Modern | 1292 | C | MAT |

How should interior finish materials such as drywall, baseboard, and interior trim be stored?

a. On the ground at the beginning of the job

b. Inside the house after framing is completed

c. Under the framing material to keep it dry

d. Under exterior grade plywood, outside

.....
17. | B6 | a | Modern | 1292 | C | MAT |

Framing material should be stacked neatly to prevent warpage.

a. True

b. False

.....
18. | B6 | a | Koel | 1292 | C | MAT |

Lumber that is stored outside should be covered with plastic sheets to prevent moisture absorption.

a. True

b. False

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.....

1. | C1 | d | Spence | 1292 | C | JH |

What is used to lay out horizontal angles?

a. Miter saw

b. Screed board

c. Anchor bolts

d. Builder's level

.....

2. | C1 | a | Spence | 1292 | C | JH |

What is used to hold a builder's level?

a. Tripod

b. Saw horse

c. Bench mark

d. I-beam

.....

3. | C1 | c | Spence | 1292 | C | JH |

What is a builder's level used for?

a. Laying out rafters

b. Determining length of joists

c. Marking grade

d. Crowning joists

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.....
4. | C2 | a | Koel | 1292 | C | MAT |

Another term for bench mark is datum or point of beginning.

a. True

b. False

.....
5. | C2 | d | Koel | 1292 | C | MAT |

What is the sequence of steps when establishing a grade level on footing forms? 1) Set up builder's level. 2) Shoot line of sight to establish height. 3) Add depth of top of footing. 4) Mark batter board with correct elevation.

a. 1, 2, 4, 3

b. 1, 4, 3, 2

c. 2, 1, 4, 3

d. 1, 2, 3, 4

.....
6. | C2 | a | Koel | 1292 | C | MAT |

The rod has to be plumb to get an accurate grade level from a bench mark.

a. True

b. False

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.....
7. | C3 | a | Modern | 1292 | C | WP |

Pieces for ledgers are made from 1x6 boards or wider.

a. True

b. False

.....
8. | C3 | a | Modern | 1292 | C | JG |

To establish a right angle, the 6-8-10 method can be used.

a. True

b. False

.....
9. | C3 | d | Modern | 1292 | C | WP |

What should be used to check the squareness of the building corners?

a. Pneumatic nailer

b. Scaffolding set-up

c. Cross bridging

d. Cross measuring

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.....
1. | D1 | d | Spence | 1292 | C | JH |

How should footing forms be set?

a. Sloping

b. Centered

c. Off-center

d. Level

.....
2. | D1 | a | Spence | 1292 | C | JH |

What is used to hold footing forms in place?

a. Stakes

b. Anchor bolts

c. Sill sealers

d. Wales

.....
3. | D1 | a | Spence | 1292 | C | JH |

Forms for footings need to be square and level.

a. True

b. False

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.....
4. | D2 | d | Modern | 1292 | C | JH |

What is the slot in the top of a footing called?

a. Anchor

b. Foundation

c. Sill

d. Keyway

.....
5. | D2 | a | Modern | 1292 | C | JH |

The keyway is used to tie footing and foundation together.

a. True

b. False

.....
6. | D2 | a | Modern | 1292 | C | JH |

A tapered 2 x 4 is used to form the keyway in the top of a footing.

a. True

b. False

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.....
7. | D3 | a | Spence | 1292 | C | JH |

What is used to check wall verticalness?

a. Level

b. Square

c. Hammer

d. Chalk line

.....
8. | D3 | d | Spence | 1292 | C | JH |

What is used to hold concrete forms the proper distance apart?

a. Anchor bolts

b. Keyway

c. Carriage bolts

d. Snap ties

.....
9. | D3 | a | Spence | 1292 | C | JH |

Forms should be cleaned and oiled before pouring concrete.

a. True

b. False

.....

10.	D3	c	Spence	1292	C	JH

What is used to keep concrete forms in line?

a. Keyways

b. Bolts

c. Wales

d. Sealers

39

.....

14.	D4	c	Spence	C	JH

What is used to keep concrete from adhering to forms?

a. Sill sealer

b. Curing compound

c. Form oil

d. Anchor bolts

40

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.....
11. | D4 | a | Spence | 1292 | C | JH |

Manufactured wall forms can be built in gangs.

a. True

b. False

.....
12. | D4 | b | Spence | 1292 | C | JH |

What are reasons for using manufactured forms?

a. Slower and cheaper

b. Speed and strength

c. Availability and looks

d. Color and size

.....
13. | D4 | a | Spence | 1292 | C | JH |

Concrete forms should be handled carefully to avoid damage to surfaces.

a. True

b. False

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.....
15. | D5 | d | Spence | 1292 | C | JH |

What is the shape of the lower edge of the riser board on concrete stair forms?

a. Saw toothed

b. Squared

c. Rounded

d. Beveled

.....
16. | D5 | a | Moore | 1292 | C | JH |

To provide a safer surface on exterior steps, risers are lower and treads are wider.

a. True

b. False

.....
17. | D5 | b | Spence | 1292 | C | JH |

Extra bracing is NOT needed on forms for concrete stairs.

a. True

b. False

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.....
18. | D6 | a | Spence | 1292 | C | JH |

Why is a box form inserted in wall forms?

a. To make an opening in concrete

b. To make a place to store tools

c. To help strength of concrete

d. To save concrete

.....
19. | D6 | a | Spence | 1292 | C | JH |

The outside dimensions of the box form equal the size of the opening in a concrete wall.

a. True

b. False

.....
20. | D6 | a | Spence | 1292 | C | JH |

What can be done to make it easy to remove a box form from a concrete wall?

a. Saw notch or kerf in sides

b. Nail extra securely

c. Use yellow pine lumber

d. Use white pine lumber

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.....
21. | D7 | b | Spence | 1292 | C | JH |

Concrete forms should be stripped and cleaned as soon as concrete is poured.

a. True

b. False

.....
22. | D7 | d | Spence | 1292 | C | JH |

What should be broken before removing concrete forms?

a. 2 x 4s

b. Plywood

c. Rebars

d. Snap ties

.....
23. | D7 | d | Spence | 1292 | C | JH |

What should be done immediately after removing plywood forms from concrete?

a. Spray form oil on them

b. Take a break

c. Stack them in a pile

d. Clean and repair them

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.....
24. | D8 | b | Spence | 1292 | C | JH |

How far apart should anchor bolts be spaced in a concrete foundation?

a. 2′

b. 4′

c. 6′

d. 8′

.....
25. | D8 | d | Spence | 1292 | C | JH |

Which size anchor bolts are used in home construction?

a. 1/8"

b. 1/4"

c. 3/8"

d. 1/2"

.....
26. | D8 | a | Spence | 1292 | C | JH |

Anchor bolts are used to bolt the mud sill to the foundation.

a. True

b. False

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.....
27. | D9 | a | Spence | 1292 | C | JH |

Why are bulkheads installed in concrete forms?

a. To hold back concrete

b. To save concrete

c. To keep wall straight

d. To help hold up forms

.....
28. | D9 | a | Spence | 1292 | C | JH |

Bulkheads in concrete forms need extra bracing.

a. True

b. False

.....
29. | D9 | c | Modern | 1292 | C | JH |

Which forms step down the grade of foundations?

a. Joists

b. Beams

c. Bulkheads

d. Screeds

.....
30. | D10 | d | Modern | 1292 | C | JH |

What is the purpose of a bituminous joint between concrete slabs?

a. For good appearance

b. To take up space

c. To hold concrete in place

d. For expansion and contraction

.....
31. | D10 | b | Modern | 1292 | C | JH |

Concrete does not change in size when it changes in temperature.

a. True

b. False

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.....

32. | D11 | c | Modern | 1292 | C | JH |

What is moving a straight edge back and forth in saw-like motion on newly poured concrete called?

a. Finishing

b. Pouring

c. Screeding

d. Sawing

.....

33. | D11 | a | Modern | 1292 | C | JH |

A screed needs to be set on grade.

a. True

b. False

.....

34. | D11 | b | Modern | 1292 | C | JH |

Screeds do not need to be removed after pouring concrete.

a. True

b. False

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.....
35. | D12 | b | Modern | 1292 | C | JH |

What is installed at the bottom of a foundation to help waterproof the basement?

a. Anchor bolts

b. Drain tile

c. Snap ties

d. Bulkheads

.....
36. | D12 | a | Modern | 1292 | C | JH |

Bituminous waterproofing is installed on outside of the foundation, below grade.

a. True

b. False

.....
37. | D12 | c | Modern | 1292 | C | JH |

Which item can be used to waterproof foundation walls?

a. 1/4" underlayment

b. 1/2" oxboard

c. Polyethylene sheeting

d. Exterior plywood

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38. | D13 | b | Modern | 1292 | C | JH |

Concrete forms for horizontal walls do not need to be tight.

a. True

b. False

.....
39. | D13 | d | Modern | 1292 | C | JH |

What happens to the pressure of concrete in forms as the depth of concrete increases?

a. Pressure goes away

b. Pressure stays the same

c. Pressure decreases

d. Pressure increases

.....
40. | D13 | c | Modern | 1292 | C | JH |

What does concrete weigh?

a. 20 lb. per cu. ft.

b. 50 lb. per cu. ft.

c. 150 lb. per cu. ft.

d. 300 lb. per cu. ft.

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.....
1. | E1 | a | Modern | 1292 | C | JH |

The termite shield is installed under the sill plate.

a. True

b. False

.....
2. | E1 | a | Modern | 1292 | C | JH |

Poisoning the soil is an alternative to a termite shield.

a. True

b. False

.....
3. | E1 | d | Modern | 1292 | C | JH |

Which gauge metal is used for a termite shield?

a. 14 gauge

b. 18 gauge

c. 20 gauge

d. 26 gauge

.....
4. | E2 | d | Modern | 1292 | C | JH |

What should cap a steel post?

a. 1/2" plywood

b. Cast iron

c. 2 x 4

d. Steel plate

.....
5. | E2 | a | Modern | 1292 | C | JH |

When wood posts are used, the footing needs to be above floor level.

a. True

b. False

.....
6. | E2 | c | Modern | 1292 | C | JH |

What is the threaded stem of a steel post used for?

a. Screw into beam

b. Hold two posts together

c. Adjust height of beam

d. Adjust width of beam

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7. | E3 | c | Modern | 1292 | C | JH |

A steel beam is installed at which part of a concrete foundation?

a. Side

b. Bottom

c. Top

d. Center

.....
8. | E3 | d | Modern | 1292 | C | JH |

What is used to support steel beams?

a. Keyways

b. Snap ties

c. Anchor bolts

d. Steel posts

.....
9. | E3 | a | Modern | 1292 | C | JH |

Steel beams are commonly used in residential construction.

a. True

b. False

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.....
10. | E4 | d | Modern | 1292 | C | JH |

What are holes drilled in a sill for?

a. Snap ties

b. I-beams

c. Keyways

d. Anchor bolts

.....
11. | E4 | d | Modern | 1292 | C | JH |

Where is a sill sealer installed?

a. Bottom of roof edge

b. Between footing and sill

c. Bottom of rafter

d. Between sill and foundation

.....
12. | E4 | b | Modern | 1292 | C | JH |

What does the sill support?

a. Steel beams

b. Floor joists

c. Ceiling joists

d. Rafters

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.....
13. | E5 | a | Modern | 1292 | C | JH |

Header joists line up on the outside of the sill.

a. True

b. False

.....
14. | E5 | d | Modern | 1292 | C | JH |

Header joists are toe nailed down to what?

a. I-beam

b. Subfloor

c. Footing

d. Sill

.....
15. | E5 | b | Modern | 1292 | C | JH |

For floor joists, which centers are commonly laid out on the header?

a. 10" on center

b. 16" on center

c. 32" on center

d. 48" on center

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.....
16. | E6 | a | Modern | 1292 | C | JH |

How should floor joists be crowned?

a. Up

b. Down

c. To the right

d. To the left

.....
17. | E6 | d | Modern | 1292 | C | JH |

Where should joists be doubled?

a. Where foundation hits footing

b. Where rafters sit on wall

c. Where the keyway goes

d. Where extra loads are supported

.....
18. | E6 | a | Modern | 1292 | C | JH |

Builders should go by plans for layout of joists.

a. True

b. False

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19. | E7 | a | Modern | 1292 | C | JH |

What should be done to trimmers at openings?

a. Doubled

b. Left out

c. Closed

d. Opened

.....
20. | E7 | a | Modern | 1292 | C | JH |

Openings in the subfloor should be square.

a. True

b. False

.....
21. | E7 | d | Modern | 1292 | C | JH |

What are short joists that make up the frame of an opening called?

a. Trimmer

b. Ceiling

c. Header

d. Tail

.....
22. | E8 | d | Modern | 1292 | C | JH |

What is used in most modern construction for subflooring?

a. 2 x 4s

b. Plastic

c. Concrete

d. Plywood

.....
23. | E8 | a | Modern | 1292 | C | JH |

Along with nailing, what can be done to help fasten plywood to joists?

a. Glue

b. Chalk

c. Cut

d. Crown

.....
24. | E8 | a | Modern | 1292 | C | JH |

Plywood subflooring should run perpendicular to joists.

a. True

b. False

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25. | E9 | d | Modern | 1292 | C | JH |

Why should bridging be installed between joists?

a. To hold up keyway

b. To take up space

c. To allow walkway between joists

d. To hold joist vertical

.....
26. | E9 | a | Modern | 1292 | C | JH |

Prefabricated steel bridging can be installed from bottom of joists.

a. True

b. False

.....
27. | E9 | b | Modern | 1292 | C | JH |

Which kind of bridging is used in odd-sized spaces?

a. Long

b. Solid

c. Girder

d. Box

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1. | F1 | a | Modern | 1292 | C | WP |

What kind of studs should be selected to construct a corner post?

a. Straight

b. Cupped

c. Bowed

d. Crowned

.....
2. | F1 | b | Modern | 1292 | C | WP |

A corner post is needed when an interior wall intersects an exterior wall.

a. True

b. False

.....
3. | F1 | a | Modern | 1292 | C | WP |

A corner is built from two full studs and blocking or three full studs without blocking.

a. True

b. False

.....
4. | F2 | c | Modern | 1292 | C | WP |

When laying out the plates for a stud wall, what is laid out first?

a. Window centers

b. Door centers

c. Regular studs

d. Trimmer studs

.....
5. | F2 | c | Modern | 1292 | C | WP |

What is the length of a pre-cut stud?

a. 72 1/2"

b. 84 1/4"

c. 92 5/8"

d. 100 3/4"

.....
6. | F2 | b | Modern | 1292 | C | WP |

A stud wall includes studs, plates, joists, and headers.

a. True

b. False

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.....
7. | F3 | b | Modern | 1292 | C | WP |

What is installed to support the weight above an opening?

a. Stud

b. Header

c. Joist

d. Plate

.....
8. | F3 | d | Modern | 1292 | C | WP |

Which component is supported by the trimmer studs?

a. Cripple studs

b. Rough sill

c. Regular studs

d. Header

.....
9. | F3 | a | Modern | 1292 | C | WP |

Framed openings include studs, trimmers, cripples, and headers.

a. True

b. False

.....
10. | F4 | a | Modern | 1292 | C | WP |

Diagonal bracing includes 1x4 let-in bracing and metal strap bracing.

a. True

b. False

.....
11. | F4 | a | Modern | 1292 | C | WP |

From which component is material cut to receive the 1x4 wind brace?

a. Stud

b. Metal strap

c. 1x4 lumber

d. Plate

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.....
12. | F5 | b | Modern | 1292 | C | WP |

How are exterior walls treated to resist sideways stress?

a. Leveled

b. Braced

c. Aligned

d. Staggered

.....
13. | F5 | b | Modern | 1292 | C | WP |

What is the next step after the wall has been set up and temporarily braced?

a. Plumb the wall

b. Adjust the sole plate

c. Loosen the braces

d. Nail the sole plate

.....
14. | F5 | c | Modern | 1292 | C | WP |

Which is the next step after the sole plate has been aligned?

a. Square the framing

b. Brace the studs

c. Loosen the braces

d. Level the headers

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.....
15. | F6 | a | Modern | 1292 | C | WP |

Fixture backing methods include extending headers and backing attached to nailing strips.

a. True

b. False

.....
16. | F6 | c | Modern | 1292 | C | WP |

What is the maximum the stud width should be cut back for let-in backing?

a. 10%

b. 20%

c. 25%

d. 50%

.....
17. | F6 | a | Modern | 1292 | C | WP |

Backing makes the hanging of cabinets easier and stronger.

a. True

b. False

Field	Contents	Field	Contents
1	Unique item number	5	Date (MMYY)
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.....
18. | F7 | a | Modern | 1292 | C | WP |

Plywood and waferwood sheathing give enough lateral strength that wind bracing is not needed.

a. True

b. False

.....
19. | F7 | c | Modern | 1292 | C | WP |

What is the thickness of the plywood most often used for sheathing?

a. 5/16"

b. 3/8"

c. 1/2"

d. 5/8"

.....
20. | F7 | a | Modern | 1292 | C | WP |

Wall sheathing in modern construction includes plywood, waferboard, fiberboard, and rigid insulating panels.

a. True

b. False

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.....
21. | F8 | b | Modern | 1292 | C | WP |

Metal studs are seldom used for drywall construction.

a. True

b. False

.....
22. | F8 | b | Modern | 1292 | C | WP |

What is used with screws to attach the metal stud to the base and ceiling channels?

a. Nails

b. Clips

c. Glue

d. Braces

.....
23. | F8 | b | Modern | 1292 | C | WP |

What is used to attach wall surface material to the metal stud?

a. Drywall nails

b. Drywall screws

c. Glue

d. Clips

Field	Contents	Field	Contents
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.....
1. | G1 | a | Modern | 1292 | C | BT |

The size of a ceiling joist is determined by the span, load, and spacing.

a. True

b. False

.....
2. | G1 | d | Modern | 1292 | C | BT |

What are the most commonly used spacings when installing ceiling joists?

a. 12 or 18 inches

b. 20 or 30 inches

c. 18 or 36 inches

d. 16 or 24 inches

.....
3. | G1 | c | Modern | 1292 | C | BT |

What should be used to support a ceiling joist when a flush beam is required in a ceiling?

a. Full stud

b. Short joist

c. Ledger

d. Header

4.	Gl	b	Y405	1292	C	BT

When using 16-gauge galvanized wire staples, what is the minimum crown width?

a. 1/4"

b. 3/8"

c. 1/2"

d. 3/4"

e. 1"

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.....
5. | G2 | d | AGC 1973 | 1292 | C | BT |

What is the name of the horizontal member which runs perpendicular to the common rafters and is attached to the top of each common rafter?

a. Purlin

b. Hip rafter

c. Gusset

d. Ridgeboard

.....
6. | G2 | c | AGC 1973 | 1292 | C | BT |

The width of the ridgeboard is determined by what?

a. Length of common rafter

b. Length of hip rafter

c. Width of rafter material

d. Height of gable

.....
7. | G2 | a | AGC 1973 | 1292 | C | BT |

What is the length of a ridgeboard of a simple rectangular building 36 feet long by 24 feet wide with a 16-inch projection over each gable end?

a. 38 feet, 8 inches

b. 37 feet, 4 inches

c. 26 feet, 8 inches

d. 25 feet, 4 inches

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.....
8. | G3 | c | AGC 1973 | 1292 | C | BT |

When laying out rafters on 24" on center, the last two will be at what spacing?

a. Always 16 inches

b. Always 24 inches

c. 24 inches or less

d. More than 24 inches

.....
9. | G3 | b | AGC 1973 | 1292 | C | BT |

The length of a ridgeboard for a hip roof is determined by the pitch of the roof.

a. True

b. False

Field	Contents	Field	Contents
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.....
10. | G4 | b | AGC 1973 | 1292 | C | BT |

In laying out rafter locations on the double top plate for a gable roof, where is the first located?

a. Center of the house

b. Flush with the end of the plate

c. Even with inside of wall

d. Overhanging end of plate by 3/4 inch

.....
11. | G4 | c | Modern | 1292 | C | BT |

What is the basic design principle used when constructing roof trusses?

a. Vertical design

b. Horizonal method

c. Rigidity of a triangle

d. Rigidity of a square

.....
12. | G4 | a | AGC 1973 | 1292 | C | BT |

On a gable roof, how many REGULAR trusses, placed 24" on center, are required for a simple rectangular building 48 feet long and 32 feet wide with a 16-inch projection on each end?

a. 23

b. 24

c. 26

d. 46

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.....
13. | G5 | c | AGC 1973 | 1292 | C | BT |

What are hip rafters attached to?

a. Headers and cripples

b. Inside corners and ridgeboard

c. Double top plate and ridgeboard

d. Purlins

.....
14. | G5 | a | AGC 1973 | 1292 | C | BT |

When figuring the length of a hip rafter, a carpenter can use the table on the framing square entitled "length of hip or valley per foot run".

a. True

b. False

.....
15. | G5 | d | Modern | 1292 | C | BT |

A jack rafter and side cuts are terms associated with which type of roof frame?

a. Gable

b. Shed

c. Gambrel

d. Hip

Field	Contents	Field	Contents
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.....
16. | G5 | d | Modern | 1292 | C | BT |

Which kind of rafters do NOT extend the full length from the top plate to the ridge?

a. Common

b. Hip

c. Valley

d. Jack

.....
17. | G5 | a | Modern | 1292 | C | BT |

An angular, bevel cut made at the top of a jack rafter or hip rafter is called a side cut.

a. True

b. False

.....
18. | G5 | c | AGC 1973 | 1292 | C | BT |

What is the unit run for a hip rafter?

a. 12 inches

b. 16 inches

c. 17 inches

d. 24 inches

.....
19. | G5 | b | Modern | 1292 | C | BT |

At what angle does the hip rafter run to the common rafters?

a. 30 degrees

b. 45 degrees

c. 60 degrees

d. 90 degrees

Field	Contents	Field	Contents
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20. | G6 | c | Modern | 1292 | C | BT |

Which kind of rafter extends from the rafter plate to the ridge at an interior corner?

a. Common

b. Hip

c. Valley

d. Valley jack

.....
21. | G6 | c | Modern | 1292 | C | BT |

What is the unit run of a valley rafter?

a. 12 inches

b. 16 inches

c. 17 inches

d. 24 inches

.....
22. | G6 | d | AAVIM Roof | 1292 | C | BT |

Most of the principles that apply to valley rafters also apply to which other type of rafter?

a. Common

b. Jack

c. Cripple

d. Hip

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.....
23. | G7 | a | Modern | 1292 | C | BT |

Which part of a rafter extends beyond the outside of the double top plate?

a. Tail

b. Bird's mouth

c. Seat

d. Plumb line

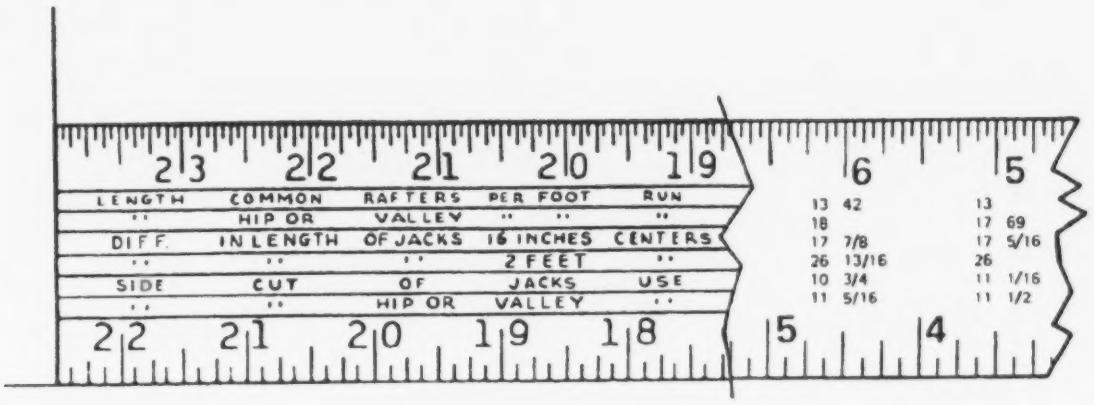

Figure G7

.....
24. | G7 | a | Modern, 1983, pg 203 | 1292 | C | BT | ART

If the projected overhang is 12 inches, what is the common rafter tail length for a roof slope of 6 to 12 (assuming a 2x6 fascia is installed)? (See Figure G7.)

a. 11 3/4"

b. 13"

c. 17"

d. 19 1/2"

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.....

25. | G7 | b | Modern | 1292 | C | BT |

Tail cheek cuts for valley and hip rafters are not required.

a. True

b. False

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.....
26. | G8 | e | Modern | 1292 | C | BT |

What is the name of the rafter that neither begins nor ends at the double top plate on the ridge?

a. Common

b. Hip

c. Valley

d. Jack

e. Cripple

.....
27. | G8 | a | Modern | 1292 | C | BT |

Another name for a cripple rafter is a cripple jack rafter.

a. True

b. False

.....
28. | G8 | a | AAVIM Roof | 1292 | C | BT |

In figuring the length of a cripple jack rafter between a hip and valley, what should the distance be equal to?

a. The plate line distance between hip and valley

b. Length of first jack rafter

c. Length of last jack rafter

d. One-half the length of valley rafter

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.....
29. | G9, G8 | b | Modern | 1292 | C | BT |

What is the cheek cut for a hip jack rafter which is located at a 90 degree outside corner?

a. 30 degrees

b. 45 degrees

c. 60 degrees

d. 75 degrees

e. 90 degrees

.....
30. | G9, G8 | a | AGC 1973 | 1292 | C | BT |

When laying out a hip roof, which rafter is laid out centered on the end wall?

a. Common

b. Hip

c. Jack

d. Valley

e. Cripple

.....
31. | G9 | b | Modern | 1292 | C | BT |

The framing square has a chart which gives the lengths of jack rafters.

a. True

b. False

.....
32. | G9 | a | Modern, 1983, pg 203 | 1292 | C | BT | ART

On a 6 to 12 roof with rafters placed 24" on center, the first jack rafter is 6′ 10" long. What would be the length of the next shorter jack rafter? (See Figure G7.)

a. 4′ 7 3/16"

b. 7′ 13/16"

c. 7′ 2"

d. 9′ 13/16"

SI

Field	Contents	Field	Contents
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33. | G10 | d | AGC 1973 | 1292 | C | BT |

Which rafter does NOT extend to the double top plate from the ridge board?

a. Common

b. Hip

c. Valley

d. Valley jack

.....
34. | G10 | a | AGC 1973 | 1292 | C | BT |

The top cut of a valley jack rafter is the same as the top cut of a common rafter.

a. True

b. False

.....
35. | G10 | b | AGC 1973 | 1292 | C | BT |

The bottom portion of a valley jack rafter has what type of a cut?

a. Square

b. Cheek

c. Horizontal

d. Bird's mouth

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.....
36. | G11 | d | AGC 1973 | 1292 | C | BT |

Which structure protrudes above a sloped roof and often has a window in it?

a. Bay window

b. Gable window

c. Lookout

d. Dormer

.....
37. | G11 | b | AGC 1973 | 1292 | C | BT |

Dormers usually have which types of roof system?

a. Gambrel

b. Shed or gable

c. Flat

d. Dutch hip

.....
38. | G11 | c | AAVIM Roof | 1292 | C | BT |

Which type of roof system for a dormer is most difficult to build?

a. Hip

b. Gable

c. Shed

d. Dutch hip

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.....
39. | G12 | d | Modern | 1292 | C | BT |

Which is the first stud to lay out when framing a gable end?

a. Shortest

b. End

c. Cripple

d. Center

.....
40. | G12 | b | AAVIM Roof | 1292 | C | BT |

Gable studs increase in length from the roof peak to the outside walls.

a. True

b. False

.....
41. | G12 | a | AAVIM Roof | 1292 | C | BT |

The formula for common difference in length of gable studs is:

On-Center Distance (") x Unit Rise (") / Unit Run (").

a. True

b. False

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.....

42.	G13, G16	d	Modern	1292	C	BT

When framing a roof system around a brick chimney, the carpenter should allow how much space between framing member and brick?

a. 1/4"

b. 1/2"

c. 1"

d. 2"

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.....
43. | G14 | a | Modern | 1292 | C | BT |

Plywood, dimensional lumber, oriented strand board, and waferboard are forms of roof sheathing.

a. True

b. False

.....
44. | G14 | b | Modern | 1292 | C | BT |

When applying roof sheathing, it is important to align the ends of the second row of sheathing on the same rafters as the first row.

a. True

b. False

.....
45. | G14 | b | X461 | 1292 | C | BT |

When applying 4x8x5/8 CD decking, what is the recommended nail size?

a. 3d or 4d

b. 6d or 8d

c. 10d or 12d

d. 16d

e. 20d

.....
46. | G14 | d | American Plywood Assn. | 1292 | C | BT |

When nailing 4x8 plywood decking, what spacing is required between panels?

a. 1/16" all around

b. 1/8" all around

c. 1/16" on panel edges and 1/8" on panel ends

d. 1/16" on panel ends and 1/8" on panel edges

.....
47. | G14 | a | AAVIM Roof | 1292 | C | BT |

Roof sheathing provides a nailing base for the roof covering.

a. True

b. False

87

Field	Contents	Field	Contents
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.....
48. | G15 | d | Modern | 1292 | C | JH |

What ties together two rafters on opposite sides of a roof?

a. I-beams

b. Header joists

c. Floor joists

d. Collar beams

.....
49. | G15 | c | Modern | 1292 | C | JH |

Which size lumber is commonly used for collar beams?

a. 1x3

b. 1x4

c. 1x6

d. 2x12

.....
50. | G15 | a | Modern | 1292 | C | JH |

Collar beams are used on gambrel roofs.

a. True

b. False

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.....
51. | G16, G13 | d | Modern | 1292 | C | BT |

When framing a roof system around a brick chimney, the carpenter should allow how much space between framing member and brick?

a. 1/4"

b. 1/2"

c. 1"

d. 2"

.....
52. | G16 | a | AGC 1973 | 1292 | C | BT |

When framing an opening in a roof, the header and side members are usually doubled.

a. True

b. False

.....
53. | G16 | c | AAVIM Roof | 1292 | C | BT |

When framing an opening in a roof, the double top header is usually installed at what angle to the slope of the common rafter?

a. 45 degrees

b. 60 degrees

c. 90 degrees

d. 180 degrees

Field	Contents	Field	Contents
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54. | G16 | d | AAVIM Roof | 1292 | C | BT |

When framing an opening in a roof, how is the double bottom header usually installed?

a. At 90 degrees with the common rafter slope

b. At 45 degrees with the common rafter slope

c. Level

d. Plumb

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.....
55. | G17 | a | Modern | 1292 | C | WP |

A knee wall's stud spacing should be equal to the rafter spacing.

a. True

b. False

.....
56. | G17 | a | Modern | 1292 | C | WP |

What is done to the rafter to allow it to fit flush with the top plate?

a. Notched

b. Leveled

c. Beveled

d. Plumbed

.....
57. | G17 | a | Modern | 1292 | C | WP |

A knee wall is a load-bearing wall.

a. True

b. False

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1	Unique item number	5	Date (MMYY)
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58. | G18 | a | Modern | 1292 | C | WP |

Boxed cornice parts include soffit, ledger, fascia, and rafter.

a. True

b. False

.....
59. | G18 | b | Modern | 1292 | C | WP |

Lookouts are usually made from 2x6 stock.

a. True

b. False

.....
60. | G18 | d | Modern | 1292 | C | WP |

To frame a cornice with a horizontal soffit, what is installed first?

a. Lookout

b. Siding

c. Frieze

d. Ledger

.....
61. | G19 | a | Modern | 1292 | C | WP |

One method of framing a gable rake is to install lookouts flat over notched rafters.

a. True

b. False

.....
62. | G19 | c | Modern | 1292 | C | WP |

Which rafter is supported by the lookouts of the gable overhang?

a. Hip

b. Valley

c. Fly

d. Common

.....
63. | G19 | b | Modern | 1292 | C | WP |

A short overhang needs as many long lookouts as a long overhang.

a. True

b. False

Field	Contents	Field	Contents
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1. | H1 | d | Hop | 1292 | C | DB |

What weight of roofing felt is commonly installed?

a. 1 or 2 pound

b. 7 or 10 pound

c. 16 or 24 pound

d. 15 or 30 pound

.....
2. | H1 | a | Henak | 1292 | C | DB |

What is building felt made from?

a. Plant fiber and asphalt

b. Fiberboard and glue

c. Insulation and gypsum

d. Plastic beads and foam

.....
3. | H1 | d | Hop | 1292 | C | DB |

How many square feet of area will a full roll of 15 lb. felt cover?

a. 100

b. 200

c. 375

d. 450

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.....
4. | H2 | a | Hop | 1292 | C | DB |

When installing chimney flashing, where is the starting point?

a. At the lowest point

b. At the side of the prevailing wind

c. At the highest point

d. At the middle

.....
5. | H2 | a | Hop | 0693 | C | DB |

A cricket is placed directly above the intersection of the chimney and the roof for proper flashing.

a. True

b. False

.....
6. | H2 | b | Hop | 1292 | C | DB |

How much flashing should extend under a shingle on the slope side of a chimney?

a. 2"

b. 6"

c. 12"

d. 24"

Field	Contents	Field	Contents
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.....
7. | H3 | b | Henak | 1292 | C | DB |

How much should step flashing overlap?

a. 1"

b. 2"

c. 4"

d. 6"

.....
8. | H3 | b | Modern | 1292 | C | DB |

Step flashing should be nailed to the vertical wall.

a. True

b. False

.....
9. | H3 | a | Modern | 1292 | C | DB |

How wide should flashing be at a vertical wall?

a. 10"

b. 12"

c. 14"

d. 16"

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10. | H4 | c | Modern | 1292 | C | DB |

Which material is commonly used for valley flashing?

a. Mortar mix

b. Concrete

c. Galvanized metal

d. Insulated glass

.....
11. | H4 | c | Modern | 1292 | C | DB |

How far should the fasteners be away from the center line of the valley?

a. 2"

b. 4"

c. 6"

d. 12"

.....
12. | H4 | c | Reed | 1292 | C | DB |

Which type of fastener should be used to install brass valley flashing?

a. Epoxy glue

b. Latex caulking

c. Brass nails or screws

d. Aluminum H clips

Field	Contents	Field	Contents
1	Unique item number	5	Date (MMYY)
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.....
13. | H5 | c | Hop | 1292 | C | DB |

Which part of the flange on a roof vent goes under the shingle?

a. All

b. None

c. One-half

d. One-fourth

.....
14. | H5 | d | Hop | 1292 | C | DB |

What are roof vents most commonly made of?

a. Wood

b. Single-pane glass

c. Concrete

d. Aluminum

.....
15. | H5 | b | Modern | 1292 | C | DB |

Roof vents help hold heat in the attic.

a. True

b. False

.....
16. | H6 | a | Hop | 1292 | C | DB |

Drip edge is used to carry rainwater away from the fascia.

a. True

b. False

.....
17. | H6 | b | Hop | 1292 | C | DB |

In what length is drip edge sold?

a. 4′

b. 10′

c. 16′

d. 25′

.....
18. | H6 | d | Hop | 1292 | C | DB |

Where should drip edge be nailed first to keep it from warping?

a. On the bottom

b. On the left

c. On the right

d. In the middle

Field	Contents	Field	Contents
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.....
19. | H7 | d | Reed | 1292 | C | DB |

What should be installed around a skylight in a flat roof?

a. Valley flashing

b. Hip rafters

c. Drip edge

d. Curb

.....
20. | H7 | a | Reed | 1292 | C | DB |

Skylights are installed just before or while a roof is being shingled.

a. True

b. False

.....
21. | H7 | c | Reed | 1292 | C | DB |

Which material is shaped to form a skylight?

a. Lead

b. Clay

c. Plastic

d. Putty

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.....
22. | H8 | a | Reed | 1292 | C | DB |

Of all roofing materials, asphalt shingles are the most widely used.

a. True

b. False

.....
23. | H8 | b | Reed | 1292 | C | DB |

How long is a standard three-tab shingle?

a. 16"

b. 36"

c. 48"

d. 60"

.....
24. | H8 | a | Reed | 1292 | C | DB |

What is the minimum roof slope on which standard shingles should be used?

a. 3 in 12

b. 4 in 12

c. 6 in 12

d. 8 in 12

Field	Contents	Field	Contents
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.....
25. | H9 | d | Modern | 1292 | C | DB |

How far should the strip shingle extend beyond the center of a valley when using a woven valley?

a. 2"

b. 4"

c. 8"

d. 12"

.....
26. | H9 | a | Reed | 1292 | C | DB |

A shingle should be bent to fit the shape of the valley before nailing.

a. True

b. False

.....
27. | H9 | a | Reed | 1292 | C | DB |

A ribbon of roofing cement should be applied to the back of the shingle along the cutting edge of a valley.

a. True

b. False

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.....
28. | H10 | a | Hop | 1292 | C | DB |

The opening in a roof for a vent pipe should be cut 1/4" larger than the pipe to allow for the flashing.

a. True

b. False

.....
29. | H10 | a | Hop | 1292 | C | DB |

Plumbing vent pipes, electrical entrance masts, skylights, and attic vents require special flashing techniques.

a. True

b. False

.....
30. | H10 | d | Hop | 1292 | C | DB |

Which tool is best for locating a hole for an object to pass through the roof?

a. Compass saw

b. Builder's level

c. Batter boards

d. Plumb line

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.....
31. | H11 | a | Hop | 1292 | C | DB |

A metal roof edge should be installed before applying shingles to a dormer.

a. True

b. False

.....
32. | H11 | b | Hop | 1292 | C | DB |

Over a dormer window or vent, shingles should be installed vertically rather than in the normal horizontal method.

a. True

b. False

.....
33. | H11 | b | Hop | 1292 | C | DB |

A cap can be eliminated when applying shingles over a dormer.

a. True

b. False

.....
34. | H12 | b | Hop | 1292 | C | DB |

How far down will the ridge cap cover from the peak of the ridge?

a. 2"

b. 5 1/2"

c. 12 1/4"

d. 16"

.....
35. | H12 | b | Hop | 1292 | C | DB |

How many ridge caps can be made from a standard composition shingle?

a. One

b. Three

c. Six

d. Eight

.....
36. | H12 | a | Hop | 1292 | C | DB |

Before reaching the ridge, advance planning and measuring result in a more "normal" appearing final course of shingles below the ridge.

a. True

b. False

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.....
37. | H13 | .d | Hop | 1292 | C | DB |

Which material is used to make factory-made ridge vents?

a. Cast iron

b. Sand

c. Mortar mix

d. Aluminum

.....
38. | H13 | b | Hop | 1292 | C | DB |

The purpose of ridge vents is to hold the rafters together at the peak of the roof.

a. True

b. False

.....
39. | H13 | b | Hop | 1292 | C | DB |

Soffit vents should be eliminated if ridge vents are used.

a. True

b. False

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.....
40. | H14 | c | Reed | 1292 | C | DB |

Which name is given to the block of log that shake shingles are cut from?

a. Chunk

b. Nut

c. Bolt

d. Quarter

.....
41. | H14 | d | Reed | 1292 | C | DB |

How are wood shake shingles sold?

a. By the pound

b. By the cubic foot

c. By the inch

d. By the bundle

.....
42. | H14 | a | Reed | 1292 | C | DB |

How much space should be left between wood shingles?

a. 1/4"

b. 1/2"

c. 3/4"

d. 1"

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.....
43. | H15 | b | Reed | 1292 | C | DB |

The narrow wood shingles in a bundle should be saved to use in finishing the valley.

a. True

b. False

.....
44. | H15 | b | Reed | 1292 | C | DB |

When finishing a valley using wood shingles, the flashing can be eliminated.

a. True

b. False

.....
45. | H15 | b | Reed | 1292 | C | DB |

How many nails should be used to attach wood valley shingles?

a. 1

b. 2

c. 3

d. 4

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.....
46. | H16 | a | Reed | 1292 | C | DB |

When installing wood shingles, how much clearance should be left between the shingle and a vent pipe?

a. 2"

b. 3"

c. 4"

d. 5"

.....
47. | H16 | b | Reed | 1292 | C | DB |

A flashing sleeve around a pipe can be eliminated when using wood shake shingles.

a. True

b. False

.....
48. | H16 | a | Reed | 1292 | C | DB |

Step flashing is installed using the same procedure with wood shingles and composition shingles.

a. True

b. False

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.....
49. | H17 | a | Reed | 1292 | C | DB |

Thirty pound felt should be used as flashing under wood shake shingles on the ridge of the roof.

a. True

b. False

.....
50. | H17 | a | Reed | 1292 | C | DB |

The top course of wood shingles should be the smoothest of any shingles on the roof.

a. True

b. False

.....
51. | H17 | d | Reed | 1292 | C | DB |

What should be tacked on near the ridge to help align the wood ridge shingles?

a. 12-gauge wire

b. 1/2" copper pipe

c. Roof edge

d. Wood guide strips

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.....

1. | I1 | d | Modern, 1987, pg 607 | 1292 | C | MS |

Which nails are best used to nail up wood window and door jamb units?

a. 4d

b. 6d

c. 8d

d. 16d

.....

2. | I1 | d | Modern, 1987, pg 607 | 1292 | C | MS |

How far apart should nails be spaced through the outside casing when installing a wood jamb window?

a. 6"

b. 8"

c. 10"

d. 12"

.....

3. | I1 | a | Modern, 1987, pg 613 | 1292 | C | MS |

To make sure a window frame is square, it is best to measure diagonally.

a. True

b. False

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.....
4. | I2 | a | Feirer/Hutchings, pg 633 | 1292 | C | MS |

The correct sequence for installing an exterior door jamb is: 1) look at blueprint, 2) prepare the rough opening, 3) cut out floor frame to accommodate sill, and 4) line opening with 15 lb. felt.

a. True

b. False

.....
5. | I2 | a | Feirer/Hutchings, pg 633 | 1292 | C | MS |

Exterior door jamb parts include the header, sill, casing and doorstop.

a. True

b. False

.....
6. | I2 | a | Feirer/Hutchings, pg 636 | 1292 | C | MS |

The exterior door jamb is the part of the frame that fits inside the rough frame openings.

a. True

b. False

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.....
7. | I3 | a | AGC Commer., 81K | 1292 | C | MS |

When installing casing, the joints should be mitered and glued.

a. True

b. False

.....
8. | I3 | a | AGC Commer., 81K | 1292 | C | MS |

Which type of joint is commonly used when casing an opening?

a. Mitered

b. Coped

c. Box

d. Finger jointed
+

.....
9. | I3 | b | AGC Commer., 81K | 1292 | C | MS |

Which width of casing is most commonly used?

a. 1" to 2"

b. 2 1/4" to 3 1/2"

c. 4" to 6"

d. 6" to 8"

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.....
10. | I4 | b | Modern, pg 289 | 1292 | C | MS |

Which minimum exterior door width is specified by the FHA minimum property standards?

a. 2'4"

b. 2'6"

c. 2'8"

d. 3'0"

.....
11. | I4 | a | Modern, pg 290 | 1292 | C | MS |

Door frames can be fitted with extension strips that adapt frames to fit a greater wall thickness.

a. True

b. False

.....
12. | I4 | d | Modern, pg 292 | 1292 | C | MS |

What is the nail spacing for nailing the casing of exterior doors?

a. 6"

b. 8"

c. 12"

d. 16"

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.....
13. | I5 | a | Koel, pg 415 | 1292 | C | MS |

Weatherstripping is used to keep out wind and rain on doors and windows.

a. True

b. False

.....
14. | I5 | a | AGC Commer., CC-241c | 1292 | C | MS |

Weatherstripping is put on after a door is hung.

a. True

b. False

.....
15. | I5 | a | AGC Commer., CC 241c | 1292 | C | MS |

What's the best tool to use to cut the metal part of weatherstripping?

a. Tin snips

b. Power saw

c. Utility knife

d. Miter saw

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.....
16. | I6 | a | AGC Commer., CC 233c | 1292 | C | MS |

For hanging prehung exterior doors, the correct sequence of steps is: 1) Check for proper dimensions, 2) Check that the side jambs are plumb, 3) Check that header is level, and 4) Check to see if floor is level.

a. True

b. False

.....
17. | I6 | a | AGC 1973, 73K | 1292 | C | MS |

When installing prehung doors, shims should be used on both sides.

a. True

b. False

.....
18. | I6 | d | AGC 1973, 74K | 1292 | C | MS |

Of the steps below, which would be the first step in installing a prehung door?

a. Plumb the hinge side and nail.

b. Plumb the door knob side and nail.

c. Level the top and nail.

d. Plumb and shim both sides of door.

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19. | I7 | d | AGC 1973, pg 93I | 1292 | C | MS |

Where is drip cap used?

a. On top of footing

b. On the roof edge

c. At the ridge cap

d. Top of windows and doors

.....
20. | I7 | c | AGC 1973, pg 93I | 1292 | C | MS |

If a roof has no overhang, what is metal piece called installed over windows and doors to keep wind and rain out?

a. Under sill trim

b. Ridge cap

c. Drip cap

d. Drip edge

.....
21. | I7 | a | AGC 1973, pg 93I | 1292 | C | MS |

When should drip caps be used over windows and doors?

a. When roofs have no overhang

b. Should be used over all doors

c. Should be used over all windows

d. Over all doors and windows

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.....
22. | I8 | a | Feirer/Hutchings, pg 963 | 1292 | C | MS |

How is wood louver size figured?

a. 1/300 of ceiling area below roof

b. 1" per sq. ft. of floor area

c. 3" per linear ft. of outside wall

d. 1/3000 of ceiling area below roof

.....
23. | I8 | a | Feirer/Hutchings, pg 963 | 1292 | C | MS |

On a house with greater than 3/12 roof pitch, one sq. ft. of louver must provide ventilation of 300 sq. ft. of ceiling area.

a. True

b. False

.....
24. | I8 | a | Feirer/Hutchings, pg 963 | 1292 | C | MS |

For a house with 1500 sq. ft. of ceiling area, at least 5 sq. ft. of ventilation louver should be used (1/300 x 1500).

a. True

b. False

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.....
25. | I9 | a | Feirer/Hutchings, pg 685 | 1292 | C | MS |

It is best when installing vinyl siding to make the joints overlap.

a. True

b. False

.....
26. | I9 | c | Feirer/Hutchings, pg 685 | 1292 | C | MS |

How many courses of vinyl siding should there be before there is a lap directly below?

a. 1

b. 2

c. 3

d. 4

.....
27. | I9 | a | Feirer/Hutchings, pg 685 | 1292 | C | MS |

When staggering end laps for vinyl siding, there should be a minimum of 24" between laps.

a. True

b. False

.....
28. | I10 | a | Feirer/Hutchings, pg 685 | 1292 | C | MS |

When installing wood siding, all edges should be backed with framing members or blocking.

a. True

b. False

.....
29. | I10 | c | Feirer/Hutchings, pg 685 | 1292 | C | MS |

What is the maximum stud spacing when thin plywood paneling (less than 1/2" thick) is used without backing?

a. 10"

b. 12"

c. 16"

d. 24"

.....
30. | I10 | a | Feirer/Hutchings, pg 685 | 1292 | C | MS |

What is the nail spacing on a 4 x 8' sheet of siding?

a. 6" on edges, 12" in center

b. 12" on edges, 6" in center

c. 16" over all edges and center

d. 12" over all edges and center

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.....

31. | I11 | a | Koel, pg 445 | 1292 | C | MS |

The procedure for placing wood shakes is similar to putting on regular shingles.

a. True

b. False

.....

32. | I11 | a | Experience | 1292 | C | MS |

Wood shingle shakes can be used on walls for decorative purposes inside the house.

a. True

b. False

.....

33. | I11 | b | Koel, pg 445 | 1292 | C | MS |

Which material is used between each course when installing wood shake shingles?

a. Slats

b. Underlayment

c. Plastic

d. Metal flashing

.....
34. | I12 | c | Feirer/Hutchings, pg 572 | 1292 | C | MS |

If metal or vinyl soffit is used, how far can it span without having a stringer added?

a. 10"

b. 12"

c. 16"

d. 24"

.....
35. | I12 | a | Feirer/Hutchings, pg 572 | 1292 | C | MS |

The formula for figuring the soffit area needed for proper ventilation is 1/300 x floor area.

a. True

b. False

.....
36. | I12 | a | Feirer/Hutchings, pg 572 | 1292 | C | MS |

What is the soffit area needed to properly ventilate a house of 1500 square feet?

a. 5 square feet

b. 4 square feet

c. 3 square feet

d. 2 square feet

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37. | I13 | a | Feirer/Hutchings, pg 568 | 1292 | C | MS |

What is the soffit nailed to under the roof overhang?

a. Ledger board

b. Cove moulding

c. Double top plate

d. Drip edge

.....
38. | I13 | a | Feirer/Hutchings, 568 | 1292 | C | MS |

A wood soffit should have a vented space.

a. True

b. False

.....
39. | I13 | b | Feirer/Hutchings, 568 | 1292 | C | MS |

All houses have wood, metal, or vinyl soffits.

a. True

b. False

.....
40. | I14 | b | Feirer/Hutchings, pg 570 | 1292 | C | MS |

When installing metal or vinyl fascia, it should be conformed to the wood to which it is being attached.

a. True

b. False

.....
41. | I14 | a | Feirer/Hutchings, pg 570 | 1292 | C | MS |

Which tool would be used to hang the fascia level?

a. Chalk line

b. Level transit

c. Plumb bob

d. Square

.....
42. | I14 | a | Feirer/Hutchings, pg 570 | 1292 | C | MS |

It is very important to allow for expansion and contraction on vinyl and metal fascia.

a. True

b. False

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43. | I15 | b | Modern | 1292 | C | JH |

How should joints in wood fascia be cut?

a. Finger

b. Mitered

c. Round

d. Off center

.....

44. | I15 | a | Modern | 1292 | C | JH |

Where do cornice fascia and rake fascia meet?

a. Corners

b. Subfloor

c. Footing

d. Bird blocks

.....

45. | I15 | b | Modern | 1292 | C | JH |

Clear redwood would NOT be acceptable material to use as fascia.

a. True

b. False

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.....
46. | I16 | b | Experience | 1292 | C | JH |

Wood columns help support the fascia.

a. True

b. False

.....
47. | I16 | d | Modern | 1292 | C | JH |

Which tool is used to plumb wood columns?

a. Tin snips

b. Brace

c. Auger

d. Level

.....
48. | I16 | a | Modern | 1292 | C | JH |

What should be used to cut wood column corners?

a. Rip saw

b. Cross-cut saw

c. Buck saw

d. Chain saw

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49. | I17 | b | Experience | 1292 | C | MS |

Prefabricated columns come cut off to the right length needed from lumber yards.

a. True

b. False

.....

50. | I17 | a | Experience | 1292 | C | MS |

When installing a prefabricated column, it is necessary to anchor it at the top and bottom.

a. True

b. False

.....

51. | I17 | a | Experience | 1292 | C | MS |

To plumb a prefabricated column, what tool is used?

a. Level

b. Chalk line

c. Tin snips

d. Transit level

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.....
52. | I18 | b | Koel, pg 416 | 1292 | C | MS |

What is the reason for installing storm doors and windows?

a. Makes the house more attractive

b. Reduces transmission of heat

c. Makes the door and window stronger

d. Increases transmission of heat

.....
53. | I18 | a | Koel, pg 522 | 1292 | C | MS |

Leveling, squaring, and plumbing procedures are the same for installing a storm door as for an exterior door.

a. True

b. False

.....
54. | I18 | a | Feirer/Hutchings, pg 36 | 1292 | C | MS |

Brick molding is used to give structural strength to storm doors and windows.

a. True

b. False

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55. | I19 | d | Experience | 1292 | C | JH |

What is used to fasten fixed shutters to brick?

a. 6" stove bolts

b. Galvanized 8d siding nails

c. 4d finish nails

d. Plastic anchors and screws

.....

56. | I19 | b | Experience | 1292 | C | JH |

Shutters may be fastened solid to vinyl siding.

a. True

b. False

.....

57. | I19 | a | Experience | 1292 | C | JH |

Shutters should be installed level with the top of a window.

a. True

b. False

.....
58. | I20 | b | Feirer/Hutchings, pg 1089 | 1292 | C | MS |

A pushing motion is used to apply caulk with a gun.

a. True

b. False

.....
59. | I20 | a | Koel, pg 664 | 1292 | C | MS |

Caulking is defined as a plastic material applied at joints and cracks to prevent air and water leakage.

a. True

b. False

.....
60. | I20 | a | Modern, 1987, Teachers Guide, pg 33 | 1292 | C | MS |

Glazing compound is used to install glass because it remains soft underneath the surface.

a. True

b. False

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61. | I21 | b | Koel, pg 437 | 1292 | C | MS |

To receive water run-off from the roof, gutters are fastened to the fascia with screws.

a. True

b. False

.....
62. | I21 | c | Feirer/Hutchings, pg 551 | 1292 | C | MS |

Which nail or hanger spacing is used to install guttering?

a. 1'

b. 2'

c. 3' or 4'

d. 16"

.....
63. | I21 | c | Feirer/Hutchings, pg 552 | 1292 | C | MS |

Which slope is used in gutters to drain water to the downspout?

a. 1/2" in 10'

b. 3/4" in 10'

c. 1" in 10'

d. 1 1/2" in 10'

.....
64. | I22 | b | Feirer/Hutchings, pg 552 | 1292 | C | MS |

How many straps should be used to hang an 8′ length of downspout?

a. 1

b. 2

c. 3

d. 4

.....
65. | I22 | a | Feirer/Hutchings, pg 552 | 1292 | C | MS |

Which part of the downspout is used to bring it in line with the wall?

a. Gooseneck

b. Elbow

c. Wrap-around hangers

d. Flashing

.....
66. | I22 | b | Feirer/Hutchings, pg 552 | 1292 | C | MS |

Which part of the downspout turns water onto the splash block?

a. Gooseneck

b. Elbow

c. Flashing

d. Pipe strainer

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67. | I23, K5 | a | Koel, pg 562 | 1292 | C | MS |

The starting newel post is the main post supporting the handrail of a stair at the bottom of the stairway.

a. True

b. False

.....
68. | I23, K5 | a | Koel, pg 562 | 1292 | C | MS |

The landing newel post is the main post supporting the handrail where it changes direction.

a. True

b. False

.....
69. | I23, K5 | d | Experience | 1292 | C | MS |

What LEAST determines the type of newel post, baluster, and railing to use?

a. Customer preference

b. Lumber yard availability

c. Architect design

d. Length of stairs

.....
70. | I24, K4 | a | Reed | 1292 | C | DB |

A subrail is a molding that is grooved to receive balusters.

a. True

b. False

.....
71. | I24, K4 | d | Smith/Honkala | 1292 | C | DB |

What are the vertical pieces between the handrail and treads in a stairway?

a. Moldings

b. Wedges

c. Stringers

d. Balusters

.....
72. | I24, K4 | b | Reed | 1292 | C | DB |

What is the proper height of the handrail for an interior staircase?

a. 24" to 26"

b. 32" to 34"

c. 40" to 42"

d. 46" to 48"

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.....
73. | I25 | d | Koel | 1292 | C | MS |

Which board is installed up against the house in building a deck?

a. Header

b. Beam

c. Joist

d. Ledger

.....
74. | I25 | a | Koel | 1292 | C | MS |

Decking may be fastened with spiral shank nails, ring shank nails, or coated screws.

a. True

b. False

.....
75. | I25 | a | Koel | 1292 | C | MS |

When designing the deck pattern, the builder must block and frame to accommodate the deck pattern.

a. True

b. False

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.....
1. | J1 | a | Modern | 1292 | C | JG | ART

When installing underlayment, the end joints should be staggered.

a. True

b. False

.....
2. | J1 | a | Modern | 1292 | C | JG |

When installing particleboard underlayment, how far should the nails be spaced from edges?

a. 1/2" to 1"

b. 1 1/2" to 2"

c. 2 1/2" to 3"

d. 3 1/2" to 4"

.....
3. | J1 | d | Modern | 1292 | C | JG |

When is the underlayment usually installed?

a. As soon as the roof is finished

b. After the walls are raised

c. Before the siding is installed

d. After the walls and ceilings are finished

.....
4. | J2 | a | Modern | 1292 | C | JG |

The typical block or parquet flooring edges are tongue and grooved.

a. True

b. False

.....
5. | J2 | a | Modern | 1292 | C | JG |

Before spreading mastic over underlayment, in what condition should the floor be for better bonding?

a. Smooth, clean, and dry

b. Wet, slick, and level

c. Rough, uneven, and clean

d. Sanded, wet, and slick

.....
6. | J2 | a | Modern | 1292 | C | JG |

For proper bonding, how thick should the mastic be when laying parquet flooring?

a. 3/32"

b. 3/8"

c. 3/4"

d. 1"

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.....
7. | J3 | d | Modern | 1292 | C | JG |

When installing plank or strip flooring to concrete, what is the flooring fastened to?

a. Risers

b. Joists

c. Batts

d. Sleepers

.....
8. | J3 | b | Modern | 1292 | C | JG |

Plank floors are usually laid in equal widths.

a. True

b. False

.....
9. | J3 | b | Modern | 1292 | C | JG |

How many days before installation should the wood flooring be delivered?

a. 1 to 2

b. 4 to 5

c. 8 to 10

d. 12 to 14

.....
10. | J4 | d | Modern | 1292 | C | JG |

To allow for expansion when installing tongue and groove flooring, how much space is required between the floor and wall?

a. 1/8"

b. 1/4"

c. 3/8"

d. 1/2"

.....
11. | J4 | d | Modern | 1292 | C | JG |

Before installing tongue and groove flooring over the subfloor, what must be put down?

a. Joint compound

b. Flooring sealer

c. Rubber mastic

d. Building paper

.....
12. | J4 | a | Modern | 1292 | C | JG |

If excessive heat reaches the flooring, cracks and open joints will appear.

a. True

b. False

.....
16. | J6 | b | Modern | 1292 | C | JG |

In the Midwest, the vapor barrier should be installed on the cold side.

a. True

b. False

.....
17. | J6 | c | Modern, pg. 338 | 1292 | C | JG |

If installing a vapor barrier over unfaced insulation, what thickness of polyethylene should be used?

a. 1 mil

b. 2 mil

c. 4 mil

d. 8 mil

.....
18. | J6 | a | Modern | 1292 | C | JG |

A vapor barrier should be installed to protect walls, ceilings, and floors.

a. True

b. False

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.....
13. | J5 | c | Modern | 1292 | C | JG |

When installing kraft-faced insulation, to which side should the kraft face?

a. Moisture

b. Cold

c. Heated

d. Straight

.....
14. | J5 | a | Modern | 1292 | C | JG |

How is unfaced batt insulation held in place?

a. Friction

b. Staples

c. Wires

d. Glue

.....
15. | J5 | b | Modern | 1292 | C | JG |

Foil-faced insulation must never be used when insulation is to remain exposed.

a. True

b. False

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.....
19. | J7 | b | Modern | 1292 | C | JG |

When installing drywall to ceilings, what is the proper spacing between nails?

a. 3"

b. 7"

c. 12"

d. 16"

.....
20. | J7 | d | Modern | 1292 | C | JG |

When installing drywall to wood and metal studs, how should the end joints be placed for easy finishing?

a. Overlapped

b. Parallel

c. Uneven

d. Staggered

.....
21. | J7 | a | Modern | 1292 | C | JG |

When nailing drywall, the nails must be countersunk properly for finishing.

a. True

b. False

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.....
22. | J8 | b | Modern | 1292 | C | JG |

Which size of nails should be used to install a door jamb?

a. 6d

b. 8d

c. 10d

d. 12d

.....
23. | J8 | b | Modern | 1292 | C | JG |

How many inches down from the top should a door jamb be blocked solid?

a. 2"

b. 7"

c. 11"

d. 16"

.....
24. | J8 | b | Modern | 1292 | C | JG |

The door jamb should be level and straight, but it isn't necessary for it to be square.

a. True

b. False

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.....
25. | J9 | c | Feirer/Hutchings | 1292 | C | JG |

What is the recommended edge distance from the face of the jamb to the edge of the casing?

a. Flush

b. 1/16"

c. 3/16"

d. 1/2"

.....
26. | J9 | d | Feirer/Hutchings | 1292 | C | JG |

What is the spacing of nails in the casing of door jambs?

a. 4"

b. 8"

c. 12"

d. 16"

.....
27. | J9 | a | Modern | 1292 | C | JG |

It is advisable to drill nail holes when using hardwood casing.

a. True

b. False

.....
28. | J10 | a | Feirer/Hutchings | 1292 | C | JG |

What is the horizontal trim member that laps the window sill called?

a. Stool

b. Apron

c. Sash stop

d. Base

.....
29. | J10 | d | Modern | 1292 | C | JG |

Which member is applied last when trimming a window with a stool?

a. Stop

b. Casing

c. Stool

d. Apron

.....
30. | J10 | a | Modern | 1292 | C | JG |

In picture frame trimming of a window, a stool and an apron are replaced by casing.

a. True

b. False

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.....
31. | J11 | a | Experience | 1292 | C | JG |

The casing for an interior opening should be set back the same distance on top and sides of the door jamb.

a. True

b. False

.....
32. | J11 | d | Modern | 1292 | C | JG |

Which member is used to keep the bottom of an interior opening the same width as the head jamb when installing an interior opening?

a. Header

b. Bottom jamb

c. Top jamb

d. Spreader

.....
33. | J11 | b | Experience | 1292 | C | JG |

The casing used on an interior opening is different from that used on doors and windows.

a. True

b. False

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.....
34. | J12 | b | Feirer/Hutchings | 1292 | C | JG |

The side of the door jamb to which the door is hinged is placed in the opening last.

a. True

b. False

.....
35. | J12 | a | Feirer/Hutchings | 1292 | C | JG |

Wood shingles are commonly used to shim the jambs when plumbing and leveling prehung doors.

a. True

b. False

.....
36. | J12 | a | Feirer/Hutchings | 1292 | C | JG |

When ordering a prehung door unit, be sure to specify the wall thickness.

a. True

b. False

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.....
37. | J13 | a | Reed | 1292 | C | JG |

A double-acting door swings into either room.

a. True

b. False

.....
38. | J13 | d | Reed | 1292 | C | JG |

How much extra floor space is required when installing a double-acting door, rather than a hinged one?

a. None

b. One-third

c. One-half

d. Two times

.....
39. | J13 | a | Reed | 1292 | C | JG |

One type of double-acting door is full size. What is the other type called?

a. Cafe

b. Pocket

c. Bi-fold

d. By-pass

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.....
40. | J14 | b | Modern | 1292 | C | JG |

The accordion door requires no overhead track.

a. True

b. False

.....
41. | J14 | a | Modern | 1292 | C | JG |

When in the extended position, an accordion door's end post always touches the center of the jamb.

a. True

b. False

.....
42. | J14 | a | Modern | 1292 | C | JG |

When installing side jambs for the accordion door system, jambs must be square.

a. True

b. False

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.....
43. | J15 | b | Experience | 1292 | C | JG |

What is the rough opening width of a 6'0" sliding by-pass door system with side jambs?

a. 6'0"

b. 6'1"

c. 6'4"

d. 6'6"

.....
44. | J15 | c | Experience | 1292 | C | JG |

What is the proper overlap for by-pass sliding doors?

a. 1/4"

b. 1/2"

c. 1"

d. 2"

.....
45. | J15 | a | Feirer/Hutchings | 1292 | C | JG |

The sliding door rollers are adjustable so that the door may be aligned with the opening.

a. True

b. False

.....
46. | J16 | a | Modern | 1292 | C | JG |

No weight is carried by the center guide on bi-fold doors.

a. True

b. False

.....
47. | J16 | c | Experience | 1292 | C | JG |

What is the standard rough opening for a 4'0" wide bi-fold door system to receive a cased opening?

a. 4'0"

b. 4'1"

c. 4'2"

d. 4'3"

.....
48. | J16 | b | Experience | 1292 | C | JG |

The door aligners supplied in the hardware package of a bi-fold door system may be thrown away.

a. True

b. False

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.....
49. | J17 | a | Feirer/Hutchings | 1292 | C | JG |

When roughing in the opening for a pocket door system, the manufacturer should be consulted.

a. True

b. False

.....
50. | J17 | b | Feirer/Hutchings | 1292 | C | JG |

There is no need to consider nail selection when installing casing and base molding on pocket doors.

a. True

b. False

.....
51. | J17 | a | Modern | 1292 | C | JG |

A pocket door framework and track is installed during the rough framing stages.

a. True

b. False

.....
52. | J18 | a | Experience | 1292 | C | JG |

A door threshold should be installed parallel with the door.

a. True

b. False

.....
53. | J18 | a | Modern | 1292 | C | JG |

After installing an aluminum threshold, the door should be beveled to seal.

a. True

b. False

.....
54. | J18 | d | Modern | 1292 | C | JG |

Other than wood, what are thresholds made from?

a. Glass

b. Steel

c. Rubber

d. Aluminum

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.....
55. | J19 | c | Feirer/Hutchings | 1292 | C | JG |

What is the height measured from the floor to locate the cylindrical lock set in a door?

a. 30"

b. 32"

c. 36"

d. 38"

.....
56. | J19 | b | Modern | 1292 | C | JG |

No part of a cylindrical lock set is mortised in.

a. True

b. False

.....
57. | J19 | a | Modern | 1292 | C | JG |

What is the correct sequence for installing cylindrical lock set? 1) Drill holes for latch and cylindrical case and install latch unit, 2) Adjust lock for size of door, 3) Mark height on edge of door, 4) Install lock.

a. 3, 1, 2, 4

b. 3, 4, 2, 1

c. 4, 2, 1, 3

d. 2, 3, 1, 4

.....
58. | J20 | b | Modern | 1292 | C | JG |

The mortise lock set is installed the same way as the tubular lock set.

a. True

b. False

.....
59. | J20 | b | Modern | 1292 | C | JG |

The mortise lock set requires a 2" mortise in the face of the door.

a. True

b. False

.....
60. | J20 | b | Modern | 1292 | C | JG |

The security rating of a mortise lock is very poor.

a. True

b. False

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.....
61. | J21 | a | Modern | 1292 | C | JG |

There are two styles of deadbolt locks.

a. True

b. False

.....
62. | J21 | a | Modern | 1292 | C | JG |

Double-cylinder deadbolts require key use on both sides of the door.

a. True

b. False

.....
63. | J21 | c | Modern | 1292 | C | JG |

What is the throw of the bolt in deadbolt lock sets?

a. 1/2"

b. 3/4"

c. 1"

d. 1 1/4"

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.....
64. | J22 | a | Koel | 1292 | C | JG |

Door closers are frequently used on public buildings.

a. True

b. False

.....
65. | J22 | b | Koel | 1292 | C | JG |

The body of the door closer is be mounted to the door.

a. True

b. False

.....
66. | J22 | b | Koel | 1292 | C | JG |

A door closer must be adjusted to close as quickly as possible.

a. True

b. False

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67. | J23 | a | AGC Commer. | 1292 | C | MAT |

What is the most common location for installing a flush bolt on a door?

a. The stile above the door knob

b. The rail above the door knob

c. The panel next to the hinges

d. The rail at top of door

.....

68. | J23 | b | AGC Commer. | 1292 | C | MAT |

When mounting a flush bolt, mount the bolt to jamb first, then mount the strike to the door.

a. True

b. False

.....

69. | J23 | a | Experience | 1292 | C | MAT |

Another name for a flush bolt is a slide bolt.

a. True

b. False

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.....
70. | J24 | a | Reed | 1292 | C | MAT |

Which type of door uses a push door plate on both sides?

a. Double-acting

b. Exterior

c. Bi-fold

d. Pocket

.....
71. | J24 | a | Experience | 1292 | C | MAT |

Where is a door plate mounted on an exterior door?

a. On the bottom rail of the door, on the outside

b. On the stile of the door, next to the hinges

c. At the top of the door, near the head jamb

d. In the middle of the door, on the inside

.....
72. | J24 | a | Experience | 1292 | C | MAT |

Door plates are placed on doors to prevent damage to the door by kicking or pushing.

a. True

b. False

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.....
73. | J25 | a | Koel | 1292 | C | MAT |

Door stops are used to prevent the door from striking a wall and to keep the door open.

a. True

b. False

.....
74. | J25 | c | Koel | 1292 | C | MAT |

Where is the door stop usually mounted on a flush steel door used in commercial buildings, such as schools and hospitals?

a. On wall behind door

b. At top of door

c. At base of door

d. On center edge of door

.....
75. | J25 | a | Koel | 1292 | C | MAT |

Door stops can be mounted on the door, on the wall, in the floor and on the hinges of a door.

a. True

b. False

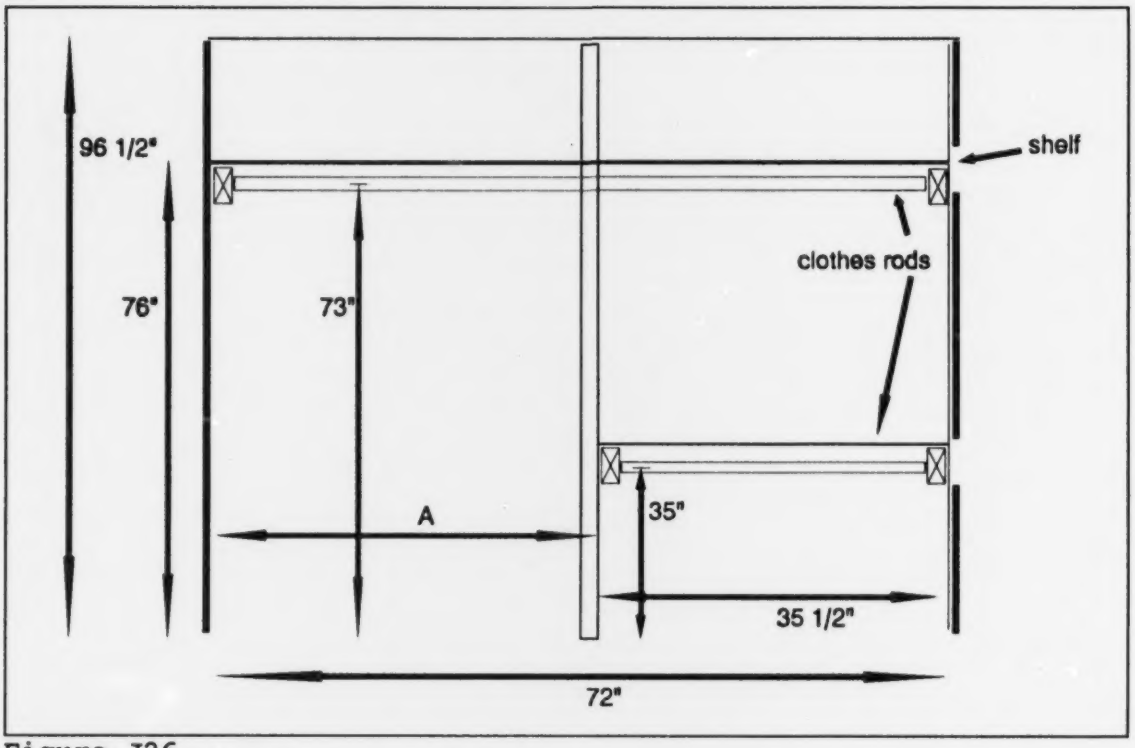

Figure J26

.....

76. | J26 | b | AGC Resid. | 1292 | C | MAT | ART

Using Figure J26, what is the correct height to the top of the top shelf?

a. 96 1/2"

b. 76"

c. 73"

d. 35"

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.....
77. | J26 | d | AGC Resid. | 1292 | C | MAT | ART

Using Figure J26, what is the center line height of the closet rods?

a. 76" and 73"

b. 96 1/2" and 35"

c. 72" and 35 1/2"

d. 73" and 35"

.....
78. | J26 | a | AGC Resid. | 1292 | C | MAT | ART

In Figure J26, what is the length of dimension A?

a. 36 1/2"

b. 36"

c. 35 1/2"

d. 35"

.....
79. | J27 | c | Experience | 1292 | C | MAT |

A carpenter is installing shelving in a pantry closet and wants to install five shelves in a closet that is 96" high, floor to ceiling. What is the distance between each shelf in order to make six equal spaces?

a. 24"

b. 18"

c. 16"

d. 12"

.....
80. | J27 | c | Experience | 1292 | C | MAT |

A carpenter wants to install coat hooks in a closet. If hooks are placed at 7" on center, how many hooks will be needed for a closet wall 56" long?

a. 12

b. 10

c. 7

d. 5

.....
81. | J27 | a | AGC Resid. | 1292 | C | MAT |

Which tools could be used to check the squareness of a closet door opening?

a. Level, framing square, and tape measure

b. Hammer, chisel, and utility knife

c. Nailset, scribe, and handsaw

d. Hammer, nailset, and scribe

Field	Contents	Field	Contents
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.....
82. | J28 | d | Koel | 1292 | C | MAT |

When assembling prefabricated cabinets, the doors are mounted on which part of the cabinet?

a. Bottom panel

b. End panel

c. Back panel

d. Face frame

e. Web frame

.....
83. | J28 | b | Koel | 1292 | C | MAT |

What is the horizontal strip of wood on the face frame of a cabinet called?

a. Stile

b. Rail

c. Mullion

d. Door

.....
84. | J28 | d | Koel | 1292 | C | MAT |

A carpenter is assembling a prefabricated cabinet that has drawers in it. Which part will be used to allow the drawer to slide in and out of the cabinet?

a. Drawer pull

b. Drawer knob

c. Drawer front

d. Drawer guide

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.....
85. | J29 | c | Koel, Fig 60-12 | 1292 | C | MAT |

What is the standard height for a 30-inch-high wall cabinet to be mounted above a countertop?

a. 12"

b. 16"

c. 18"

d. 20"

.....
86. | J29 | a | Koel | 1292 | C | MAT |

What is the correct procedure for hanging wall cabinets? 1) Snap level line on wall, 2) Plumb cabinet, 3) Hang door on cabinet, 4) Nail cleat on wall to hold cabinet, 5) Screw cabinet to wall.

a. 1, 4, 2, 5, 3

b. 3, 4, 1, 2, 5

c. 4, 1, 2, 5, 3

d. 2, 3, 1, 4, 5

.....
87. | J29 | a | Koel | 1292 | C | MAT |

A kitchen wall is 186 1/2" long with a 30" wide window centered on the wall. The carpenter has 4-24" wide cabinets, 1-30" cabinet, and 2-15" cabinets. What is the best combination of cabinets to utilize the space efficiently?

a. 2-24" and 2-15" on one side of window; 2-24" and 1-30" on other

b. 2-24" and 1-15" on one side; 1-30", 1-15" and 2-24" on the other

c. 2-15" and 1-30" on one side; 4-24" on the other

d. 3-24" and 1-15" on one side; 1-24", 1-30" and 1-15" on the other

Field	Contents	Field	Contents
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.....
88. | J30 | d | Experience | 1292 | C | MAT |

A wall is 108 1/2" long. The sink base cabinet is centered on the wall. What is the dimension to the center of the cabinet?

a. 49 1/4"

b. 52 1/8"

c. 53 1/16"

d. 54 1/4"

.....
89. | J30 | c | Koel, Fig. 60/13 | 1292 | C | MAT |

What is the best fastener to use when attaching base cabinets to each other?

a. 16 c.c. nail

b. #8 finish nail

c. Flat head wood screw

d. Wood glue

.....
90. | J30 | d | Modern | 1292 | C | MAT |

A carpenter is setting a base cabinet next to a wall that is slightly out of plumb. Which tool is used to mark the edge of the cabinet so it can be cut to fit the wall?

a. Level

b. Wood plane

c. Shim

d. Scribe

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.....
91. | J31 | d | Koel | 1292 | C | MAT |

What is the name of the part of the countertop that rests against the wall?

a. Plastic laminate

b. Ceramic tile

c. Toe kick

d. Backsplash

.....
92. | J31 | a | Modern | 1292 | C | MAT |

In the construction of a countertop, plastic laminate is glued using contact cement.

a. True

b. False

.....
93. | J31 | a | Modern | 1292 | C | MAT |

A plastic laminate countertop should be placed face down on the table saw when cutting.

a. True

b. False

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.....
94. | J32 | a | Experience | 1292 | C | MAT |

A flush-mounted medicine cabinet is mounted on top of the finished wall.

a. True

b. False

.....
95. | J32 | c | Experience | 1292 | C | MAT |

What is the size of the hole to cut in drywall to mount a 14" x 26" recessed medicine cabinet with a 1/2" mounting flange on all sides?

a. 14" x 26"

b. 13 1/2" x 25 1/2"

c. 13" x 25"

d. 12 3/4" x 24 3/4"

.....
96. | J32 | a | Willis | 1292 | C | MAT |

What is the blueprint symbol for a medicine cabinet in a residential set of planes?

a. MC

b. 3068

c. ©

d. SA

.....
97. | J33 | a | Koel | 1292 | C | MAT |

When installing wall paneling, if the first panel or piece is set in plumb, subsequent panels do not have to be checked for plumb.

a. True

b. False

.....
98. | J33 | b | Koel | 1292 | C | MAT |

When nailing 1" x 6" tongue and groove paneling, where should nails be placed?

a. Face-nailed near edge

b. Blind-nailed through tongue

c. Nailed at top and bottom of piece

d. Face-nailed in middle of panel

.....
99. | J33 | a | AGC Commercial | 1292 | C | MAT |

What is the name of paneling that is placed on the lower one-third of a wall, capped off with a chair rail?

a. Wainscot

b. Paneling

c. Laminate

d. Wood paneling

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.....
100. | J34 | d | Modern | 1292 | C | MAT |

How should inside corners on baseboard be joined?

a. Butt joint

b. Finger joint

c. Mitered joint

d. Coped joint

.....
101. | J34 | c | Koel | 1292 | C | MAT |

Which kind of joint is used to join baseboard in the middle on a long wall?

a. Butt

b. Coped

c. Mitered

d. Finger

.....
102. | J34 | a | AGC Resid. | 1292 | C | MAT |

Baseboard should be placed above the subfloor 1/2"-3/4" to allow for finish flooring to be placed underneath it.

a. True

b. False

.....
103. | J35 | d | AGC Commer. | 1292 | C | MAT |

What is the correct sequence for installing a suspended T-grid ceiling? 1) Layout ceiling height and center lines, 2) Install hanger wires, 3) Install wall angles, and 4) Install main runners and cross tees.

a. 4, 1, 3, 2

b. 3, 2, 1, 4

c. 1, 2, 3, 4

d. 1, 3, 2, 4

.....
104. | J35 | c | AGC Commer. | 1292 | C | MAT |

How many 2′ x 4′ panels will be needed to complete a ceiling that is 40′ x 52′ 6"?

a. 180

b. 210

c. 263

d. 324

.....
105. | J35 | c | AGC Commer. | 1292 | C | MAT |

A ceiling is 11′ 6" wide. When using 2′0" x 2′0" panels, what is the size of each piece of suspended ceiling placed next to the walls?

a. 18"

b. 19"

c. 21"

d. 23"

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.....
106. | J36 | d | Modern | 1292 | C | MAT |

How is the metal framework of suspended concealed grid ceiling mainly supported?

a. Wood studs

b. Ceiling joists

c. Heavy rope

d. Hanger wire

.....
107. | J36 | a | Modern | 1292 | C | MAT |

The main difference between T-grid suspended ceiling and concealed grid suspended ceiling is that the gridwork is hidden by the ceiling panels.

a. True

b. False

.....
108. | J36 | c | Modern | 1292 | C | MAT |

The ceiling panels for suspended concealed grid ceiling are 6" wide x 4' long. How many are needed to hang a ceiling that is 9'6" x 11'8"? (Allow 5% for waste.)

a. 48

b. 52

c. 60

d. 66

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.....
109. | J37 | a | Koel | 1292 | C | JG |

When installing ceiling trim, a scarf joint is recommended between two pieces of trim.

a. True

b. False

.....
110. | J37 | a | Experience | 1292 | C | JH |

When installing crown or cove molding, it is recommended to work in one continuous direction.

a. True

b. False

.....
111. | J37 | b | Koel | 1292 | C | JG |

When placing the moulding in the miter box to cut a 45° angle, position the moulding as if the bottom of the miter box were the wall.

a. True

b. False

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.....
112. | J38 | d | Reed | 1292 | C | JH |

Which stair folds up into the attic?

a. Spiral stairway

b. Extension ladder

c. Step ladder

d. Disappearing stairway

.....
113. | J38 | b | Reed | 1292 | C | JH |

Disappearing stairs are attached to common rafters.

a. True

b. False

.....
114. | J38 | c | Reed | 1292 | C | JH |

What should the installer check before installing disappearing stairs?

a. Walls for plumb

b. Subfloor for level

c. Opening for square

d. Pitch of roof

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.....
115. | J38, K6 | d | Hop | 1292 | C | DB |

Which type of stairway conserves space?

a. Closed stairway

b. Open stair

c. Straight-line stairway

d. Spiral stairs

.....
116. | J38, K6 | a | Hop | 1292 | C | DB |

A pull-down stairway is designed for infrequent access to attics.

a. True

b. False

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.....
117. | J39 | b | Spence | 1292 | C | JG |

The bottom sash should be removed when installing a metal frame window.

a. True

b. False

.....
118. | J39 | a | Feirer/Hutchings | 1292 | C | JG |

Heat loss through metal frames is much greater than through wood frames.

a. True

b. False

.....
119. | J39 | b | Feirer/Hutchings | 1292 | C | JG |

Metal window frames require more maintenance than wood frames.

a. True

b. False

.....
120. | J40 | a | Koel, fig. 59-43 | 1292 | C | MAT |

The correct order for installing a three-piece metal door frame in a gypsum (drywall) board wall is to install one side jamb, then the header jamb, and then the other side jamb.

a. True

b. False

.....
121. | J40 | a | Koel | 1292 | C | MAT |

When installing a metal door frame in a masonry wall, what is the correct sequence? 1) Attach metal T-hangers in jamb, 2) Check squareness of unit, 3) Level and plumb unit, 4) Brace unit in place.

a. 2, 3, 4, 1

b. 1, 2, 3, 4

c. 3, 4, 2, 1

d. 3, 2, 1, 4

.....
122. | J40 | c | Koel, Fig 59-42 | 1292 | C | MAT |

What is the correct fastener to use to attach a steel door frame to a steel stud wall?

a. 16d nails

b. Construction adhesive

c. Metal screws

d. #8 finish nails

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.....
1. | K1 | d | Reed | 1292 | C | DB |

Which part of the stairway system supports the treads and risers and runs on a diagonal?

a. Stairwell

b. Baluster

c. Handrail

d. Stringer

.....
2. | K1 | a | Reed | 1292 | C | DB |

What is the minimum headroom for a standard stairway?

a. 6'8"

b. 7'2"

c. 7'8"

d. 8'2"

.....
3. | K1 | a | Reed | 1292 | C | DB |

When laying out stairs, the following formula is used:
Total rise = height of a riser x no. of risers.

a. True

b. False

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.....
4. | K2 | d | Reed | 1292 | C | DB |

What should the minimum tread width for a residential stairway be?

a. 3"

b. 5"

c. 7"

d. 9"

.....
5. | K2 | d | Reed | 1292 | C | DB |

What is the overhang called that extends from the front of the tread?

a. Headroom

b. Carriages

c. Balusters

d. Nosing

.....
6. | K2 | a | Smith/Honkala | 1292 | C | DB |

In a stairway, the risers are put in place first and then the tread is installed.

a. True

b. False

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.....
7. | K3 | a | Smith/Honkala | 1292 | C | DB |

What is a stairway called that is built between two stationary walls?

a. Housed stair

b. Open stair

c. Semihoused stair

d. Semihoused riser

.....
8. | K3 | d | Smith/Honkala | 1292 | C | DB |

When a stairway changes direction, what is the transition area called?

a. Nosing

b. Riser

c. Run

d. Landing

.....
9. | K3 | a | Reed | 1292 | C | DB |

A stair pole is a simple tool for recording heights in a stairwell.

a. True

b. False

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.....
10. | K4, I24 | a | Reed | 1292 | C | DB |

A subrail is a molding that is grooved to receive balusters.

a. True

b. False

.....
11. | K4, I24 | d | Smith/Honkala | 1292 | C | DB |

What are the vertical pieces between the handrail and treads in a stairway?

a. Moldings

b. Wedges

c. Stringers

d. Balusters

.....
12. | K4, I24 | b | Reed | 1292 | C | DB |

What is the proper height of the handrail for an interior staircase?

a. 24" to 26"

b. 32" to 34"

c. 40" to 42"

d. 46" to 48"

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.....
13. | K5, I23 | a | Koel, pg 562 | 1292 | C | MS |

The starting newel post is the main post supporting the handrail of a stair at the bottom of the stairway.

a. True

b. False

.....
14. | K5, I23 | a | Koel, pg 562 | 1292 | C | MS |

The landing newel post is the main post supporting the handrail where it changes direction.

a. True

b. False

.....
15. | K5, I23 | d | Experience | 1292 | C | MS |

What LEAST determines the type of newel post, baluster, and railing to use?

a. Customer preference

b. Lumber yard availability

c. Architect design

d. Length of stairs

.....
16. | K6, J38 | d | Hop | 1292 | C | DB |

Which type of stairway conserves space?

a. Closed stairway

b. Open stair

c. Straight-line stairway

d. Spiral stairs

.....
17. | K6, J38 | a | Hop | 1292 | C | DB |

A pull-down stairway is designed for infrequent access to attics.

a. True

b. False

.....
18. | K6 | a | Hop | 1292 | C | DB |

More flexibility in design is possible with welded steel than with wood stairways.

a. True

b. False

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.....
19. | K7 | d | Reed | 1292 | C | DB |

When should the skirtboard be installed on a stairway?

a. Before the stringers

b. During the planning stages

c. Before the landing

d. During the trimming process

.....
20. | K7 | b | Reed | 1292 | C | DB |

There should be no clearance between the skirtboard and the tread.

a. True

b. False

.....
21. | K7 | a | Reed | 1292 | C | DB |

A skirtboard is installed to give a finished appearance to the stairway.

a. True

b. False

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.....

1. | L1 | c | VICA | 0889 | C | Fred Smith |

Which is a poor reason for students to enroll in occupational training programs?

a. To work toward a career

b. To develop business and industry contacts

c. To avoid taking math, science, or English classes

d. To work toward financial independence

.....

2. | L1 | a | VICA | 0889 | C | Fred Smith |

Only one VICA club per school is allowed.

a. True

b. False

.....

3. | L1 | d | VICA | 0889 | C | Fred Smith |

How many VICA districts does Missouri have?

a. 3

b. 5

c. 7

d. 9

4.	L1	b	VICA	0889	C	Fred Smith

In which national VICA region is Missouri located?

a. 3

b. 4

c. 5

d. 6

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.....

5. | L2 | b | VICA | 0889 | C | Fred Smith |

Personal values rarely affect career choices.

a. True

b. False

.....

6. | L2 | a | VICA | 0889 | C | Fred Smith |

A career should align with one's personal values, interests, and abilities.

a. True

b. False

.....
7. | L3 | b | VICA | 0889 | C | Fred Smith |

Effective decision-making can be broken down into six steps.

a. True

b. False

.....
8. | L3 | b | VICA | 0889 | C | Fred Smith |

A new supervisor should be liked by all workers in order to be effective.

a. True

b. False

.....
9. | L3 | d | VICA | 0889 | C | Fred Smith |

Which goal should a supervisor work toward in order to succeed and improve worker morale?

a. Keep attention on getting work done

b. Be as fair as possible

c. Avoid taking a worker's negative feelings personally

d. All the above

.....
10. | L3 | a | VICA | 0889 | C | Fred Smith |

To be more productive, workers need ways to measure and use time more effectively.

a. True

b. False

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11. | L4 | d | VICA | 0889 | C | Fred Smith |

Which trait or traits do employers expect from their employees?

a. Cooperation and acceptance of evaluation

b. Honesty

c. Initiative

d. All of the above

.....
12. | L4 | d | VICA | 0889 | C | Fred Smith |

Which characteristic should employees expect from their employers?

a. Understanding of job requirements

b. Fair payment for labor

c. Equal treatment for all employees

d. All of the above

.....
13. | L4 | a | VICA | 0889 | C | Fred Smith |

Effective communication, care for people, flexibility, dependability, optimism, and perseverance are traits of good leaders.

a. True

b. False

.....
14. | L5 | a | VICA | 0889 | C | Fred Smith |

Good table manners include entering into table conversation.

a. True

b. False

.....
15. | L5 | b | VICA | 0889 | C | Fred Smith |

A coatroom clerk at a restaurant is usually NOT tipped.

a. True

b. False

.....
16. | L5 | a | VICA | 0889 | C | Fred Smith |

Employees should stand when an authority figure (employer) joins them for a meal.

a. True

b. False

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17. | L6 | b | VICA | 0889 | C | Fred Smith |

It is a good idea to use big words when writing in order to impress people.

a. True

b. False

.....
18. | L6 | a | VICA | 0889 | C | Fred Smith |

Self-concept affects verbal communication.

a. True

b. False

.....
19. | L6 | a | VICA | 0889 | C | Fred Smith |

When speaking, always use a vocabulary that others can understand.

a. True

b. False

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20. | L7 | a | VICA | 0889 | C | Fred Smith |

Professionals respect themselves and others.

a. True

b. False

.....
21. | L7 | a | VICA | 0889 | C | Fred Smith |

A person's code of ethics defines his or her principles or standards of right and wrong.

a. True

b. False

.....
22. | L7 | a | VICA | 0889 | C | Fred Smith |

A professional code of ethics includes both legal and moral standards.

a. True

b. False

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23. | L8 | a | VICA | 0889 | C | Fred Smith |

Appropriate business attire for men would include a traditional dark suit.

a. True

b. False

.....
24. | L8 | a | VICA | 0889 | C | Fred Smith |

Fashion accessories reflect the self-image of an individual.

a. True

b. False

.....
25. | L8 | a | VICA | 0889 | C | Fred Smith |

Getting plenty of sleep and avoiding junk food can improve personal appearance.

a. True

b. False

.....
26. | L9 | a | VICA | 0889 | C | Fred Smith |

A resume is a well-organized overview of what one has to offer an employer.

a. True

b. False

.....
27. | L9 | a | VICA | 0889 | C | Fred Smith |

A letter of application should ask an employer for an interview.

a. True

b. False

.....
28. | L9 | a | VICA | 0889 | C | Fred Smith |

The local chamber of commerce can help people research employers.

a. True

b. False

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29. | L10 | a | VICA | 0889 | C | Fred Smith |

When parliamentary procedures are used at a meeting, only one subject at a time should be discussed.

a. True

b. False

.....
30. | L10 | a | VICA | 0889 | C | Fred Smith |

Parliamentary procedure calls for the finishing of old business before new business is started.

a. True

b. False

.....
31. | L10 | a | VICA | 0889 | C | Fred Smith |

Parliamentary procedure calls for standing committee reports to be given before special committee reports.

a. True

b. False

.....
32. | L10 | a | VICA | 0889 | C | Fred Smith |

Proper use of the gavel signals members to stand or sit.

a. True

b. False